

May 30, 2014 Project No. 063-7109-914

Ms. Dyan Whyte Assistant Executive Officer California Regional Water Quality Control Board San Francisco Bay Region 1515 Clay Street, Suite 1400 Oakland, California 94612

RE: Quarterly Report, Water Code Section 13267 Order No R2-2013-1005-A1, Order Item No. 7,

Lehigh Southwest Cement Company, Permanente Facility, 24001 Stevens Creek Boulevard,

Cupertino, California.

Dear Ms. Whyte:

Golder Associates Inc. (Golder), on behalf of Lehigh Southwest Cement Company (Lehigh), has prepared this First (1<sup>st</sup>) Quarter 2014 Summary Report for the Lehigh Permanente Cement Plant and Quarry (Site) located at 24001 Stevens Creek Boulevard in Santa Clara County, California. This report was prepared pursuant to Order Item No. 7 set forth in Water Code section 13267 Order No. R2-2013-1005-A1 (Order) amended by the San Francisco Bay Regional Water Quality Control Board (RWQCB) on June 27, 2013.

### 1.0 MONITORING REQUIREMENTS

Order Item No. 7 requires the sampling of locations specified on Table 1 below. Table 1 is derived from the Order Item No. 7 Table A.1 sample locations (additional sampling locations are included on Order Table A.1 that pertain to Order Items 8 and 11 and therefore are excluded from Table 1 below). Consistent with the Order, monitoring locations that overlap with outfalls identified in the Sand and Gravel (S&G) permit may be appropriately referenced and are not resampled for Order Item No. 7.

**Table 1: Monitoring Requirements and Details** 

Sample Number <sup>1</sup>	Sample Description	Frequency	Constituents	Sampling Details
1	Downstream Sample Location	Per S&G permit; Quarterly for PP13 metals <sup>2</sup>	S&G Permit Conventional Pollutants (CP) plus CTR PP13 total metals	Quarterly sampling occurred on 2/6/14
6	Pond 30	Per Industrial SW Permit	Industrial SW Permit plus CTR PP13 total metals	Sampled per Industrial SW Permit; metals were sampled on 2/27/14
10	Pond 21	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 2/6/14
11	Pond 20	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 2/6/14
12	Laboratory Parking Lot	Per Industrial SW Permit	Industrial SW Permit	Sampled per Industrial SW Permit on 2/28/14



Sample Number <sup>1</sup>	Sample Description	Frequency	Constituents	Sampling Details
13	DS RW Emergency Bypass	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Emergency Bypass in 1 <sup>st</sup> Quarter 2014
14	Emergency Bypass	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 1 <sup>st</sup> Quarter 2014
15	DS RW Pond 17	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 2/6/14
17	Pond 17 Outfall	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 2/6/14
18	DS RW Dinky Shed	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Dinky Shed in 1 <sup>st</sup> Quarter 2014
19	Dinky Shed Overflow	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 1 <sup>st</sup> Quarter 2014
20	DS RW Pond 9	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 2/6/14
21	DS RW Rock Plant Sump	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge from Rock Plant Sump in 1 <sup>st</sup> Quarter 2014
22	Rock Plant Overflow	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 1 <sup>st</sup> Quarter 2014
23	Pond 9 Outfall	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 2/6/14
24	Pond 13 DS RW	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 2/27/14 <sup>3</sup>
27	Pond 13 B	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 2/27/14
28	DS Pond 4a, inflow to Pond 13	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 3/6/14
29	Historic Buried Pipe	Monthly when flowing	S&G CP plus CTR PP13 total metals	Not sampled - no discharge in 1 <sup>st</sup> Quarter 2014
31	Pond 4a	Per S&G permit; Quarterly for PP13 metals	S&G CP plus CTR PP13 total metals	Sampled per S&G permit; metals sampled on 3/6/14
32	Background	Quarterly	S&G CP plus CTR PP13 total metals	Not sampled - sample location was dry when attempted to sample on 1/15/14 and 3/20/14

<sup>1: 13267</sup> Order Table A.1 Sample Location Designation; DS = downstream, RW = receiving water

### 2.0 SAMPLING SUMMARY

The 1<sup>st</sup> Quarter 2014, Item 7, sampling results are summarized on the attached Tables 2 and 3. The laboratory analytical reports are also enclosed. Since it is not required as part of Order Item No. 7, the upstream receiving water sample locations are not summarized on Tables 2 and 3; however, the data is included in the enclosed laboratory analytical reports. Duplicate samples of the downstream sample location were collected as part of the monitoring and sampling program. Field blanks were also collected as part of the sampling events when metals were analyzed.

As part of S&G permit routine monitoring, 16 of the 21 sample locations listed on Table 1 and shown on Figure 1 are monitored and sampled. Of the 16 S&G permit routine monitoring locations, 10 were sampled during the 1<sup>st</sup> Quarter 2014. The other six locations were not sampled as no discharges were noted or they were dry (Table 1). The data from the S&G permit routine monitoring for the 1<sup>st</sup> Quarter 2014 were



<sup>2:</sup> This sampling location is not required to be sampled per the Sand & Gravel General Permit; thus, only quarterly sampling was performed.

<sup>3:</sup> Hexavalent chromium sample was collected on 2/28/14.

summarized in Lehigh's 1<sup>st</sup> Quarter 2014 Self-Monitoring Report (SMR). These data are also included herein (Table 2).

The five locations included in Order Item No. 7 that are not covered under the S&G permit are as follows:

- Downstream (Sample Number 1)
- Pond 30 (Sample Number 6)
- Laboratory Parking Lot (Sample Number 12)
- Historic Buried Pipe (Sample Number 29)
- Background (Sample Number 32)

As part of the 1<sup>st</sup> Quarter 2014 sampling, Golder sampled Downstream (Sample Number 1), Pond 30 (Sample Number 6), and Laboratory Parking Lot (Sample Number 12). The two other non S&G permit locations were not sampled as no discharges were noted or they were dry during the 1<sup>st</sup> Quarter (Table 1).

Monitoring and sampling were conducted in accordance to Golder's standard operating procedures. Golder measured field parameters with a Myron Ultrameter II or YSI 556 water-quality meter, HACH chlorine test kit, and a LaMotte turbidity meter. Golder followed to the extent practicable the EPA recommended "clean hands/dirty hands" sampling protocol for the collection of samples to be analyzed by EPA methods 1631 and 1638. Golder submitted the samples to Alpha Analytical Laboratories Inc. (Alpha) under proper chain of custody for laboratory analysis of the S&G conventional pollutants and CTR PP13 total metals. Alpha subcontracted with Brooks Rand Labs for select metals analyses.

### 3.0 CLOSING

This report has been prepared and reviewed by the undersigned.

**GOLDER ASSOCIATES INC.** 

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George C. Wegmann Senior Geologist William L. Fowler, PG, CEG Principal/Program Leader

cc: Greg Knapp, Lehigh Southwest Cement Company

Nicole Granquist, Downey Brand LLP

Attachments

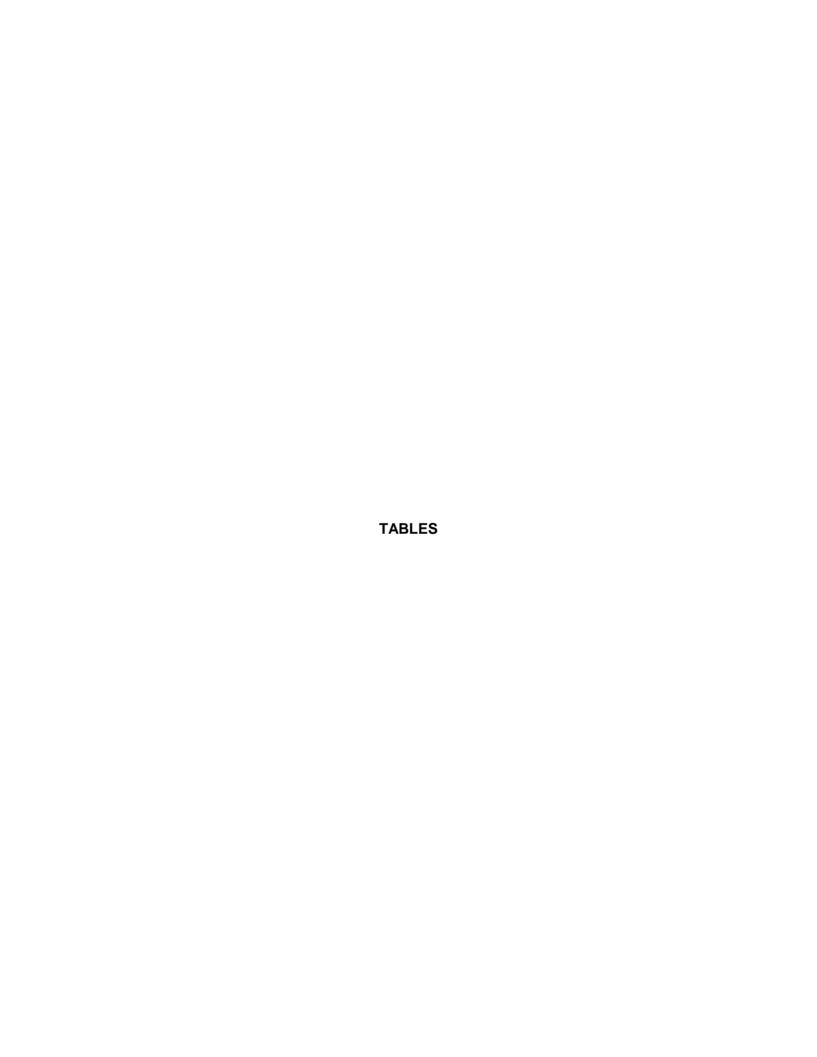
Figure 1: Item 7 Sample Locations

Table 2: S&G Data Summary
Table 3: PP13 Metals Summary
Laboratory Analytical Reports



WILLIAM L. FOWLER No. 1401

> CERTIFIED ENGINEERING GEOLOGIST



							Chlorine	Ī									Total		Ī					1									
			Flo	w Rate	Turbidity	рН	Residual	Temp	DO	Cł	nloride			TSS			et Mat			TDS			0&G		Hard	dness		Sal	linity			TOC	
Sample	Sample Description	Units			NTU	s.u.	mg/L	C	mg/L		mg/L			mg/L			ıL/L/hr			mg/L			mg/L			g/L			/kg			mg/L	
Location		Test Method	gpm	MGD	Field	Field	Field	Field	Field		A 300.0			<sub>6</sub> , - 12540D			, <u>-</u> , /12540f			<sub>6</sub> , - 125400			<sub>6</sub> , <u>-</u> A 1664	4		340B			, 2520B			153100	
		Date	F	ield	Result	Result	Result	Result	Grab	Result	MDL	RL	Result			Result						Result		_	Result		RL R				Result		RL
1	Site Downstream Sample	2/6/2014	-	-	14.4	7.87	-	10.42	9.72	100	0.75	12	-	-	-	-	-	-	1000	5.0	10	-	-	-	537^	1	5	ND	2.0	2.0	-	-	-
	Duplicate (Downstream)	2/6/2014	-	-	-	-	-	-	-	98	0.75	12	-	-	-	-	-	-	1100	5.0	10	-	-	-	510^	1	5	ND	2.0	2.0	-	-	-
6	Pond 30	2/27/2014	15	0.0216	58.23	7.49	ND	12.69	9.34	-	-	-	26	0.30	1.0	-	-	-	-	-	-	ND	0.80	5.0	-	-	-	-	-	-	-	-	-
10	Pond 21	2/6/2014	-	-	26.3	8.07	-	10.14	7.51	66	0.75	12	-	-	-	-	-	-	1000	5.0	10	-	-	-	796^	1	5	ND	2.0	2.0	-	-	-
		2/28/2014	-	-	21.1	7.63	-	14.01	4.42	84	0.75	12	-	-	-	-	-	-	1100	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/31/2014	-	-	54	7.55	-	12.64	8.77	35	0.15	2.5	-	-	-	-	-	-	630	5.0	10	-	-	-	592	1	5	ND	2.0	2.0	-	-	-
11	Pond 20	2/6/2014	20	0.029	11.89	8.66	ND	8.81	11.89	56	0.75	12	480	0.30	0.50	1.2	0.10	0.10	1000	5.0	10	2.0	0.80	1.4	-	-	-	-	-	-	-	-	-
		2/8/2014	5	0.007	861	8.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/28/2014	30	0.043	41	8.98	ND	13.74	9.72	72	0.60	10	57	0.30	0.50	ND	0.10	0.10	940	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/1/2014	3	0.004	19.8	8.32	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/31/2014	100		60	9.60	ND		12.05	15	0.030	0.50	1000	0.30	0.50	ND*	0.10	0.10	470	5.0	10	1.4^	0.80		-	-	-	-	-	-	-	-	-
12	Laboratory Parking Lot	2/28/2014	1	0.001	2.56	8.17	ND	13.02		-	-	-	2.5	0.30	1.0	-	-	-	-	-	-	2.9 J	0.80	5.0	-	-	-	-	-	-	13.2	0.1	0.3
15	Pond 17 Downstream RW	1/3/2014	-	-	4.28	7.59	-	9.49	9.30	91	0.75	12	-	-	-	-	-	-	1700	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		1/9/2014	-	-	2.58	7.43	-	10.91	7.77	100	0.75	12	-	-	-	-	-	-	1600	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		1/15/2014	-	-	3.13	7.55	-	10.82	9.6	120	0.75	12	-	-	-	-	-	-	1500	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		1/23/2014	-	-	11.48	8.22	-	11.48	10.16	140	0.75	12	-	-	-	-	-	-	1100	5.0	10	-	-	-	362	1	5	ND	2.0	2.0	-	-	-
		2/6/2014	-	-	22.6	8.18	-	10.54	10.28	91	0.75	12	-	-	-	-	-	-	1200	5.0	10	-	-	-	657^	1	5	ND	2.0	2.0	-	-	-
		2/12/2014	-	-	8.79	8.03	-	12.44	7.99	150	0.75	12	-	-	-	-	-	-	970	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		2/20/2014	-	-	0.49	7.61	-	13.21	7.08	140	1.5	25	-	-	-	-	-	-	2000	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		2/28/2014	-	-	37.3	8.64	-	14.01	9.11	70	0.60	10	-	-	-	-	-	-	920	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/6/2014	-	-	5.58	8.08	-	15.22	8.90	39	0.75	12	-	-	-	-	-	-	1100	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/30/2014	-	-	2.21	8.12	-		11.32		0.60	10	-	-	-	-	-	-	1000	5.0	10	-	-	-	653	1	5	ND	2.0	2.0	-	-	-
17	Pond 17 Discharge	1/3/2014	75	0.108	4.05	7.72	ND	8.42	10.73	91	0.75	12	5.2	0.30	0.50	ND*	0.10	0.10	1800	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		1/4/2014	75	0.108	1.74	7.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		1/6/2014	60	0.086	0.86	7.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		1/7/2014	5	0.007	1.08	7.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		1/8/2014	5	0.007	2.90	7.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		1/9/2014	60	0.086	2.65	7.73	ND	9.17	10.63	110	0.75	12	-	-	-	ND	0.10	0.10	1600	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		1/10/2014	60	0.086	1.93	7.71	-	-	-	-	-	-	8.7	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		1/11/2014	100		1.35	7.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		1/13/2014	75		3.32	7.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		1/14/2014	40		3.18	7.70	-	-	-	-	- 75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	- [	-	-	-	-	-	-
		1/15/2014	40	0.058	4.55	7.73	ND	8.83	12.74	130	0.75	12	-	- 0.20	-	ND		0.10	1600	5.0	10	-	-	-	-	-	- [	-	-	-	-	-	-
		1/16/2014	20	0.029	3.77	7.55	-	-	-	-	-	-	2.9	0.30	0.50	-	-	_	-	_	-	-	-	-	-	-	- [	-	-	-	-	-	-
		1/17/2014	20	0.029	2.94	7.58	-	-	-	-	-	-	-	-	-	-	-	_	-	_	-	-	-	-	-	-	- [	-	-	-	-	-	-
		1/18/2014	50	0.072	2.61	7.67	-	-	-	-	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	- [	-	-	-	-	-	-
Ī		1/22/2014	15		0.85	7.48	-	10.72	0.01	110	- 0.75	12	-	-	-	-	0 10	0 10	2000	-	10	101	- 0.00	1 1	-	-	- [	-	-	-	-	-	-
		1/23/2014	10	0.014	1.45	7.72	ND	10.73	9.91	110	0.75	12	-	-	-	ND	0.10	0.10	2000	5.0	10	1.0 J	0.80	1.4	-	-	- [	-	-	-	-	-	-

							Chlorine										Total															1
			Flo	w Rate	Turbidity	рН	Residual	Temp	DO	Ch	loride			TSS			et Mat			TDS			O&G		Har	dness		Salin	itv		TOC	
Sample	Sample Description	Units			NTU	s.u.	mg/L	C	mg/L		ng/L			mg/L			ıL/L/hr			mg/L			mg/L			g/L		g/k	•		mg/L	
Location		Test Method	gpm	MGD	Field	Field	Field	Field	Field		4 300.0			л 12540D			<i></i> И2540Г			л25400	2		A 1664	1		2340B		SM25			SM5310	C
		Date	F	ield	Result	Result	Result				MDL	RL	Result		_				Result			Result		_	Result		_					_
17	Pond 17 Discharge cont.	1/24/2014	75	0.108	0.97	7.64	-	-	-	-	-	-	3.6	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-					-	-
	_	1/25/2014	50	0.072	2.99	7.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		1/26/2014	15	0.022	1.09	7.47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		1/27/2014	50	0.072	2.87	7.49	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		1/28/2014	70	0.101	3.68	7.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/1/2014	5	0.007	2.02	7.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/2/2014	70	0.101	1.31	8.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/3/2014	15	0.022	1.61	7.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/4/2014	1	0.001	1.74	7.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/5/2014	40	0.058	0.92	7.85	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/6/2014	70	0.101	13.7	7.83	ND	10.80	-	90	1.5	25	3.4	0.30	0.50	ND	0.10	0.10	1900	5.0	10	1.3 J	0.80	1.4	-	-			-   -	.   -	-	-
		2/7/2014	10	0.014	27.1	7.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/8/2014	60	0.086	30	7.61	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/9/2014	50	0.072	14.7	7.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/10/2014	40	0.058	16.3	7.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/11/2014	40	0.058	18.6	7.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/12/2014	50	0.072	4.73	7.85	ND	11.33	9.30	120	1.5	25	-	-	-	ND	0.10	0.10	1800	5.0	10	-	-	-	-	-			-   -	.   -	-	-
		2/13/2014	5	0.007	4.38	7.93	-	-	-	-	-	-	3.0^	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-			-   -		-	-
		2/14/2014	150	0.216	3.18	7.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/15/2014	40	0.058	1.48	7.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/17/2014	10	0.014	2.13	7.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/18/2014	10	0.014	1.56	7.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/19/2014	80	0.115	1.21	7.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/20/2014	40	0.058	3.02	7.77	ND	13.02	9.29	130	1.5	25	-	-	-	ND	0.10	0.10	2300	5.0	10	-	-	-	-	-	-   -		-   -	-   -	-	-
		2/21/2014	50	0.072	9.51	7.98	-	-	-	-	-	-	20^	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/22/2014	40	0.058	9.13	7.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/24/2014	75	0.108	5.04	7.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/25/2014	20	0.029	4.14	7.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/26/2014	80	0.115	4.27	7.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		2/27/2014	150		44.36	7.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	·   -	-	-
		2/28/2014	100	0.144	35.1	8.14	ND	14.65	8.09	73	0.75	12	19	0.30	0.50	0.10	0.10	0.10	1000	5.0	10	-	-	-	-	-			-   -	.   -	-	-
		3/1/2014	100		16.1	7.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-   -		-   -	·   -	-	-
		3/2/2014	105		20.77	7.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-   -		-   -	·   -	-	-
		3/3/2014	50	0.072	16.86	7.62	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -	.   -	-	-
		3/4/2014	60	0.086	10.85	7.92	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -		-	-
		3/5/2014	75	0.108	12.63	7.86	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-   -		-	-
		3/6/2014	1	0.001	3.05	8.06	ND	15.99	8.44	130	1.5	25	-	-	-	ND	0.10	0.10	1500	5.0	10	-	-	-	-	-	-   -		-   -	·   -	-	-
		3/7/2014	0	0.000	-	-	-	-	-	-	-	-	80	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-   -		-   -	·   -	-	-
	<u> </u>	3/22/2014	5	0.007	3.81	7.66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-	-

			Fla	Data	T de l'alia.		Chlorine	T	D0		مامند ماما			TCC			Total			TDC			000		Пом	dooss		Ç.	linitu			TOC	
Sample	Cample Description	l lmita	FIO	w Rate	Turbidity	рН	Residual	Temp			hloride			TSS			et Mat nL/L/hr			TDS			0&G			dness			linity			TOC	
Location	Sample Description	Units Test Method	gpm	MGD	NTU Field	s.u. Field	mg/L Field	Field	mg/L Field		mg/L A 300.0			mg/L ∕12540©	,		лс/ с/тт И2540I			mg/L 125400	,		mg/L A 1664	1		ıg/L 2340B			g/kg 2520B			mg/L //5310	_
		Date	F	ield	Result	Result	Result	Result		Result			Result			Result			Result			Result		_		MDL	RL R				Result		RL
17	Pond 17 Discharge cont.	3/29/2014	5	0.007	3.31	7.80	-	-	-	-	-	-	_	-	-	_	-	-	-	-	-	-	-	-	_	-	-	-	-	-	-	-	-
		3/30/2014	3	0.004	13.2	8.11	ND	16.07	9.83	96^	0.60	10	20	0.30	0.50	ND	0.10	0.10	720	5.0	10	3.0	0.80	1.4	_	-	-	-	_	-	-	-	_
		3/31/2014	50	0.072	19.8	7.83	-	-	-	-	-	-	-	_	-	_	-	-	-	_	-	-	-	-	_	-	-	-	-	-	-	-	_
20	Pond 9 Downstream RW	1/2/2014	-	-	1.07	7.52	-	8.71	10.57	82	0.75	12	-	-	-	-	-	-	1500	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		1/9/2014	-	-	0.47	7.36	-	11.12	7.98	93	0.75	12	-	_	-	-	-	-	1200	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		1/15/2014	-	-	1.79	7.46	-	10.67	10.53	90	0.60	10	-	-	-	-	-	-	1300	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		1/23/2014	-	-	26.0	8.38	-	11.84	10.53	140	0.75	12	-	_	-	-	-	-	920	5.0	10	-	-	-	-	-	-	-	-	-	-	-	_
		1/30/2014	-	-	7.70	7.29	-	12.68	9.02	100	0.75	12	-	_	-	_	-	-	1100	5.0	10	-	-	-	612	1	5	ND	2.0	2.0	-	-	-
		2/6/2014	-	-	48.0	8.35	-	10.57	10.65		0.60	10	-	_	-	_	-	-	860	5.0	10	-	-	-	457^	1	5	ND	2.0	2.0	-	-	_
		2/12/2014	-	-	47.6	8.39	-	12.30	7.92	150	0.75	12	-	_	-	_	_	_	770	5.0	10	-	_	_	_	-	-	-	-	-	-	-	_
		2/20/2014	-	-	0.3	7.40	_	12.71	7.23	110	1.5	25	_	_	_	_	_	_	1700	5.0	10	-	_	_	_	-	-	-	-	_	-	_	_
		2/28/2014	-	-	174.5	9.1	_	13.75	9.28	67	0.60	10	_	_	_	_	_	_	620	5.0	10	-	_	_	_	-	-	-	-	_	-	_	_
		3/6/2014	-	-	1.53	7.87	-	15.04	8.89	35	0.75	12	-	_	-	_	-	-	1100	5.0	10	-	-	-	_	-	-	-	-	-	-	-	_
		3/13/2014	-	-	4.15	7.90	-	14.94	8.20	84	0.75	12	-	_	-	_	_	_	1000	5.0	10	-	_	_	_	-	-	-	_	-	-	-	_
		3/20/2014	-	-	0.75	7.93	_	15.44	7.86	63	0.75	12	_	_	_	_	_	_	980	5.0	10	-	_	_	_	-	-	-	_	_	-	_	_
		3/26/2014	-	-	0.44	7.91	_	14.95	7.62	19	0.60	10	_	_	_	_	_	_	1000	5.0	10	_	-	-	641	1	5	ND	2.0	2.0	-	_	_
23	Pond 9 Discharge	1/2/2014	50	0.072	1.92	7.42	ND	8.43	10.94	77	0.75	12	_	-	-	ND	0.10	0.10	1200	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		1/3/2014	15	0.022	1.51	7.50	_	-	_	-	-	_	2.4	0.30	0.50	_	_	_	-	_	_	-	_	_	_	-	-	-	_	_	-	_	_
		1/4/2014	15	0.022	1.50	7.51	_	-	_	-	-	_	-	_	_	_	_	_	-	_	_	-	_	_	_	-	-	-	_	_	-	_	_
		1/6/2014	15	0.022	2.02	7.49	_	-	_	-	-	_	-	_	_	_	_	_	-	_	_	-	_	_	_	-	-	-	_	_	-	_	_
		1/7/2014	60	0.086	1.07	7.45	-	-	-	-	-	-	-	_	-	_	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	_
		1/8/2014	15	0.022	0.32	7.15	-	-	-	-	-	-	-	_	-	_	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	_
		1/9/2014	15	0.022	0.87	7.24	ND	10.32	7.38	73	0.75	12	-	_	-	ND	0.10	0.10	1100	5.0	10	-	-	-	_	-	-	-	-	-	-	-	_
		1/10/2014	15	0.022	1.73	7.38	-	-	-	-	-	-	2.8	0.30	0.50	_	-	-	-	_	-	-	-	-	_	-	-	-	-	-	-	-	_
		1/11/2014	15	0.022	2.31	7.41	-	-	-	-	-	-	-	_	-	_	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	_
		1/13/2014	15	0.022	2.65	7.43	_	-	_	-	-	_	-	_	-	_	_	_	-	_	_	-	_	_	_	-	-	-	_	_	-	_	_
		1/14/2014	75	0.108	0.90	7.67	_	-	_	-	-	_	-	_	-	_	_	_	-	_	_	-	_	_	_	-	-	-	_	_	-	_	_
		1/15/2014	15	0.022	2.55	7.40	ND	9.98	10.88	75	0.60	10	-	_	-	ND	0.10	0.10	1300	5.0	10	-	_	_	_	-	-	-	_	-	-	-	_
		1/16/2014	15	0.022	2.55	7.46	_	-	_	-	-	_	3.4	0.30	0.50	_	_	_	-	_	_	-	_	_	_	-	-	-	_	_	-	_	_
		1/17/2014	20	0.029	1.61	7.50	_	-	_	-	-	_	-	_	-	_	_	_	-	_	_	-	_	_	_	-	-	-	_	_	-	_	_
		1/18/2014	15	0.022	3.76	7.48	_	-	_	-	-	_	-	_	-	_	_	_	-	_	_	-	_	_	_	-	-	-	_	_	-	_	_
		1/20/2014	70	0.101	1.48	7.98	_	-	_	-	-	_	-	_	-	_	_	_	-	_	_	-	_	_	_	-	-	-	_	_	-	_	_
		1/21/2014	125		3.86	8.41	-	-	-	-	-	-	_	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		1/22/2014	150		7.94	8.63	-	-	-	-	-	-	-	_	-	_	-	-	-	_	-	-	-	-	-	-	-	-	-	-	-	-	_
		1/23/2014	150		29.4	8.31	ND	12.07	9.43	150	0.75	12	-	-	-	0.10	0.10	0.10	820	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		1/24/2014	20	0.029	5.33	7.77	_	-	_	_	_	_	12	0.30	0.50	_	_	_	-	_	_	-	_	_	_	_	-	_	_	_	-	-	_
		1/25/2014	40	0.058	11.9	7.59	_	-	_	_	_	_	_	-	-	_	_	_	-	_	_	-	_	_	_	_	-	_	_	_	-	-	_
		1/26/2014	20	0.029	2.76	7.46	_	_	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	_	_	_	_	_	-	_
		1/27/2014	40	0.058	9.98	7.39	_	-	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_	_	_	_	-	_	_	_	-	-	_
		1/28/2014	40	0.058	7.51	7.29	_	-	_	_	_	_	_	_	_	_	_	_	-	_	_	-	_	_	_	_	-	_	_	_	-	-	_
		1/29/2014	20	0.029	5.00	8.49	_	-	_	_	_	_	_	_	_	_	_	_	-	_	_	_	_	_	_	_	-	_	_	_	-	-	_
		1/30/2014	15	0.022	6.10	7.17	ND	12.78	9.80	96	0.75	12	_	_	_	ND	0.10	0.10	960	5.0	10	0.80 J	0.80	1.4	_	_	-	_	_	_	_	-	_
		1/31/2014	15		2.7	7.48	-	-	-	_	-	_	ND	0.30	0.50	-	-	-	_	-	_	-	-	_	_	_	-	_	_	_	-	-	_
		2/1/2014	15	0.022	6.53	7.64	_	-	_	_	_	_	_	-	-	_	_	_	_	_	_	-	_	_	_	_	-	_	_	_	-	-	_
		2/2/2014	30	0.043	3.06	7.97	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_

			1				Chlorine								I		Total		Ī								T			Т			—
			Flox	w Rate	Turbidity	рН	Residual	Temp	DO	CI	nloride			TSS			et Mat	+		TDS			O&G		Har	dness		Sal	linity		7	тос	•
Sample	Sample Description	Units			NTU	s.u.	mg/L	С	mg/L		mg/L			mg/L			nL/L/hr			mg/L			mg/L			ig/L			/kg			ng/L	
Location	Sample Beschption	Test Method	gpm	MGD	Field	Field	Field	Field	Field		<sub>Б</sub> , <u>-</u> A 300.0	1		<sub>6</sub> , <u>-</u> /12540D	,		√2540			<sub>Б</sub> , <u>-</u> И25400			A 1664	4		2340B			2520B			<sub>6</sub> , <u>-</u> 153100	
		Date	F	ield	Result	Result	Result	Result		Result	1	RL	Result	_		Result			Result	1		Result			Result		RL Re				Result		RL
23	Pond 9 Discharge cont.	2/3/2014	20	0.029	9.67	7.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	_	2/4/2014	20	0.029	13.7	7.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/5/2014	15	0.022	2.39	7.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/6/2014	700	1.008	74.1	8.21	ND	10.55	9.38	82	0.60	10	6.5	0.30	0.50	0.50	0.10	0.10	840	5.0	10	1.0 J	0.80	1.4	-	-	-	-	-	-	-	-	-
		2/7/2014	300	0.432	67.0	8.27	_	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/8/2014	200	0.288	196	7.97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/9/2014	200	0.288	93.7	8.12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/10/2014	200	0.288	94.5	8.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/11/2014	150	0.216	59.7	7.54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/12/2014	200	0.288	53.1	8.25	ND	12.45	6.65	150	0.75	12	-	-	-	ND	0.10	0.10	730	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		2/13/2014	50	0.072	39.1	8.42	-	-	-	-	-	-	16^	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/14/2014	15	0.0216	2.95	8.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/15/2014	50	0.072	7.88	8.56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/17/2014	15	0.022	10.75	7.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/18/2014	50	0.072	18.35	7.69	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/19/2014	15	0.022	2.21	7.41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/20/2014	5	0.007	2.11	7.47	ND	13.20	6.99	93	0.75	12	-	-	-	ND	0.10	0.10	1200	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		2/21/2014	75	0.108	20.51	7.83	-	-	-	-	-	-	4.5^	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/22/2014	5	0.007	2.20	7.60	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/24/2014	30	0.043	3.83	7.03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/25/2014	30	0.043	3.84	7.17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/26/2014	20	0.029	29.76	7.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/27/2014	40	0.058	133.0	7.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		2/28/2014	250	0.360	180	9.19	ND	13.81	7.61	61	0.60	10	20	0.30	0.50	ND	0.10	0.10	550	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/1/2014	250	0.360	184	8.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/2/2014	200	0.288	110.4	8.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/3/2014	100	0.144	56.32	8.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/4/2014	45	0.065	64.14	8.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/5/2014	60	0.086	40.50	7.74	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/6/2014	20	0.029	22.00	7.49	ND	15.42	5.47	110	0.75	12	-	-	-	ND	0.10	0.10	930	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/7/2014	20	0.029	8.72	7.60	-	-	-	-	-	-	6.6	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/8/2014	50	0.072	6.17	7.53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/9/2014	75	0.108	8.19	7.80	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/10/2014	3	0.004	5.55	7.57	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/11/2014	50	0.072	4.64	7.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/12/2014	5	0.007	6.48	7.76	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/13/2014	800	1.152	5.16	7.83	0.2	15.78	7.72	94	0.75	12	-	-	-	ND	0.10	0.10	1100	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/14/2014	500		2.83	7.91	ND	-	7.63	-	-	-	25	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/15/2014	65	0.094	2.79	7.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/17/2014	1000		8.80	7.89	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/18/2014	100		4.03	7.88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/19/2014	75		2.38	7.65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/20/2014	250		1.84	7.99	ND	17.88	6.92	110	0.75	12	-	-	-	ND	0.10	0.10	960	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/21/2014	250		4.75	7.79	-	-	-	-	-	-	4.8	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/22/2014	5	0.007	0.12	7.46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

4 of 6

	1						Chlorine										Total													Ī			
			Flo	w Rate	Turbidity	рН	Residual	Temp	DO	С	hloride			TSS			et Mat			TDS			O&G		Har	dness		Sa	linity			TOC	
Sample	Sample Description	Units			NTU	s.u.	mg/L	C	mg/L		mg/L			mg/L			ıL/L/hr			mg/L			mg/L			g/L			g/kg			mg/L	
Location		Test Method	gpm	MGD	Field	Field	Field	Field	Field		A 300.0			л Л2540D	)		, , √12540I			/125400	С		PA 1664	4		2340B			2520B	3		л Л5310	С
		Date	F	ield	Result	Result	Result	Result		Result		_	Result			Result			Result			Result		_	Result		RL R				Result		RL
23	Pond 9 Discharge cont.	3/23/2014	30	0.043	2.29	7.48	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/24/2014	75	0.108	2.99	7.42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/25/2014	75	0.108	5.65	7.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/26/2014	1	0.001	0.50	7.79	ND	14.35	6.68	54	0.75	12	-	-	-	ND	0.10	0.10	1200	5.0	10	1.5	0.80	1.4	-	-	-	-	-	-	-	-	-
		3/27/2014	75	0.108	3.73	7.55	-	-	-	-	-	-	5.4	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/29/2014	5	0.007	0.86	7.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/30/2014	15	0.022	2.09	7.68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/31/2014	1000	1.440	73	7.71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
24	Pond 13 DS RW	2/27/2014	-	-	45.49	7.63	-	14.50	6.56	45	0.60	10	-	-	-	-	-	-	1000	5.0	10	-	-	-	548	1	5	ND	2.0	2.0	-	-	-
27	Pond 13A Discharge into Pond	2/27/2014	3	0.004	833.8	7.99	ND	16.44	8.90	36	0.75	12	28	0.30	0.50	ND	0.10	0.10	1200	5.0	10	ND	0.80	1.4	-	-	-	-	-	-	-	-	-
	13B	2/28/2014	10	0.014	74.0	8.16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/1/2014	3	0.004	49.5	8.06	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
28	DS Pond 4a, inflow to Pond 13	3/6/2014	-	-	1.02	8.18	-	16.35	9.17	15	0.75	12	-	-	-	-	-	-	1100	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/13/2014	-	-	1.41	8.14	-	15.96	7.84	13	0.15	2.5	-	-	-	-	-	-	950	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/20/2014	-	-	0.91	8.22	-	17.02	7.83	13	0.60	10	-	-	-	-	-	-	1100	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/26/2014	-	-	0.30	8.28	-	17.02	7.52	14	0.60	10	-	-	-	-	-	-	1000	5.0	10	-	-	-	617	1	5	ND	2.0	2.0	-	-	-
31	Pond 4A Discharge	2/28/2014	3	0.004	1.67	8.56	ND	13.55	10.00	74	0.15	2.5	1.7	0.30	0.50	ND	0.10	0.10	900	5.0	10	ND	0.80	1.4	-	-	-	-	-	-	-	-	-
		3/1/2014	635	0.914	2.52	8.14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/2/2014	610	0.878	3.92	7.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/3/2014	537	0.773	14.26	8.07	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/4/2014	485	0.698	6.41	7.82	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/5/2014	511	0.736	3.76	8.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/6/2014	545	0.785	1.71	8.01	ND	21.77	6.76	13	0.75	12	-	-	-	ND	0.10	0.10	1000	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/7/2014	544	0.783	1.87	8.10	-	-	-	-	-	-	1.5	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/8/2014	543	0.781	1.73	7.55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/9/2014	542	0.781	1.94	7.95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/10/2014	596	0.858	2.53	7.98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/11/2014	531	0.765	1.62	8.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/12/2014	541	0.779	2.23	7.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/13/2014	550	0.792	2.8	7.95	ND	21.63	8.24	12	0.15	2.5	-	-	-	ND	0.10	0.10	970	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/14/2014	548		1.57	8.09	-	-	9.93	-	-	-	3.6	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/15/2014	548		1.37	7.93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/16/2014	548		0.96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/17/2014	625		0.78	7.79	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/18/2014	735		2.21	7.94	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/19/2014	738		1.03	7.91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/20/2014	703		1.41	7.92	ND	20.57	6.65	13	0.60	10	-	-	-	ND	0.10	0.10	1000	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/21/2014	702		1.46	7.98	-	-	-	-	-	-	ND	0.30	0.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/22/2014	702		0.92	8.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/23/2014	701		1.83	7.26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/24/2014	680		1.39	8.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/25/2014	634		1.04	8.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		3/26/2014	653		0.62	7.98	ND	20.90		-	-	-	-	-	-	-	-	-	-	-	-	1.2 J	0.80	1.4	-	-	-	-	-	-	-	-	-
		3/27/2014	674		0.99	8.03	-	-	7.18	13	0.15	2.5	0.84	0.30	0.50	ND	0.10	0.10	1000	5.0	10	-	-	-	-	-	-	-	-	-	-	-	-
		3/28/2014	618	0.890	0.95	7.98	-		-		-	-		-	-	-	-	-		-	-		-	-	-	-	-	-	-	-	-	-	-

							Chlorine									Total															
Cample			Flov	w Rate	Turbidity	рН	Residual	Temp	DO	Chloride	<b>!</b>		TSS		Se	et Mat		Т	DS		0&G		Har	dness		Sali	nity		Т	OC	
Sample Location	Sample Description	Units	gpm	MGD	NTU	s.u.	mg/L	С	mg/L	mg/L			mg/L		m	L/L/hr		m	ıg/L		mg/L		m	g/L		g/	kg			ng/L	
Location		Test Method	gpiii	IVIO	Field	Field	Field	Field	Field	EPA 300.	0	SN	/12540D		SM	12540F		SM2	2540C	Е	PA 166	4	SM2	340B		SM2	520B		SM5	5310C	
		Date	F	ield	Result	Result	Result	Result	Grab	Result MDL	RL	Result	MDL	RL	Result	MDL	RL	Result	MDL R	L Resul	MDL	RL	Result	MDL	RL R	sult N	ЛDL	RL Re	sult N	ИDL	RL
31	Pond 4A Discharge	3/29/2014	603	0.868	1.09	7.95	-	-	-		-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-
		3/30/2014	602	0.867	0.82	8.05	-	-	-		-	-	-	-	-	-	-	-	-   -	-	-	-	-	-	-	-	-	-	-	-	-
		3/31/2014	665	0.958	2.16	7.55	-	-	-		-	-	-	-	-	-	-	-	-   -	-	-	-	-	-	-	-	-	-	-	-	-

### Notes:

All samples are grab samples, except for TSS samples for Ponds 4a, 9, and 17, which are 24-hr composites for TSS.

The date listed for 24-hour composites is when sampling was finished.

J = Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

ND = Analyte not detected at or above the reporting limit.

^ Lab blank contained trace amount of this analyte.

Only days are shown for when discharges occurred.

6 of 6 Golder Associates Inc.

<sup>\*</sup> Analysis exceeded sampling holding time limit.

# Table 3: PP13 Metals Summary Order Item No. 7 Lehigh Southwest Cement Company Permanente Plant 1st Quarter 2014

Sample Location	· '	Sample Date		Antimo	ny (ug/	L)		Arseni	c (ug/L)			Berylli	um (ug/	L)		Cadmiu	um (ug/	L)		Copp	er (ug/L	.)
	Number																					
				1	638			1638	3 DRC			1	638			1	638			1	L638	
			Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier
Downstream Location	1	2/6/14	0.512	0.011	0.042	-	1.01	0.047	0.158	-	ND	0.053	0.158	U	0.110	0.007	0.021	-	4.40	0.042	0.126	F
Duplicate (downstream)	1	2/6/14	0.519	0.011	0.042	-	1.06	0.047	0.158	-	ND	0.053	0.158	U	0.112	0.007	0.021	-	4.11	0.042	0.126	F
Pond 30	6	2/27/14	0.505	0.011	0.042	-	1.93	0.009	0.032	-	ND	0.053	0.158	U	0.134	0.007	0.021	-	7.47	0.042	0.126	F
Pond 21	10	2/6/14	0.523	0.011	0.042	-	2.27	0.047	0.158	-	0.119	0.053	0.158	В	0.599	0.007	0.021	ı	15.3	0.042	0.126	F
Pond 20	11	2/6/14	0.858	0.011	0.042	-	3.44	0.047	0.158	-	0.196	0.053	0.158	-	0.901	0.007	0.021	1	23.3	0.042	0.126	F
Pond 17 DS RW	15	2/6/14	0.873	0.011	0.042	-	1.10	0.047	0.158	-	ND	0.053	0.158	U	0.178	0.007	0.021	1	6.23	0.042	0.126	F
Pond 17	17	2/6/14	1.91	0.011	0.042	-	0.606	0.047	0.158	-	ND	0.053	0.158	U	0.221	0.007	0.021	1	4.77	0.042	0.126	F
Pond 9 DS RW	20	2/6/14	0.655	0.011	0.042	-	1.69	0.047	0.158	-	ND	0.053	0.158	U	0.264	0.007	0.021	1	10.2	0.042	0.126	F
Pond 9	23	2/6/14	0.708	0.011	0.042	-	2.03	0.047	0.158	-	0.070	0.053	0.158	В	0.312	0.007	0.021	1	11.5	0.042	0.126	F
Pond 13 DS RW	24	2/27/14	0.664	0.011	0.042	-	1.40	0.009	0.032	-	ND	0.053	0.158	U	0.134	0.007	0.021	1	4.48	0.042	0.126	-
Pond 13 A/B	27	2/27/14	0.779	0.011	0.042	-	0.705	0.009	0.032	-	ND	0.053	0.158	U	0.094	0.007	0.021	-	5.64	0.042	0.126	-
DS Pond 4A, inflow to Pond 13	28	3/6/14	3.11	0.011	0.042	-	0.521	0.009	0.032	-	ND	0.053	0.158	U	0.522	0.007	0.021	-	1.33	0.042	0.126	F
Pond 4A	31	3/6/14	5.68	0.011	0.042	-	1.63	0.009	0.032	-	ND	0.053	0.158	U	1.31	0.007	0.021	-	1.63	0.042	0.126	F

Sample Location	Sample Number	Sample Date		Chromi	um (ug,	/L)	ŀ	Hexachro	me (mg	;/L)		Lead	d (ug/L)			Mercu	iry (ng/	L)		Nicke	el (ug/L)	ı
				163	8 DRC			SM350	00-Cr B			1	L638			16	531E			163	8 DRC	
			Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier
Downstream Location	1	2/6/14	5.78	0.158	0.474	Ft	ND	0.0050	0.010	-	0.305	0.006	0.026	F	23.2	2.00	5.000	-	13.5	0.526	2.11	-
Duplicate (downstream)	1	2/6/14	5.81	0.158	0.474	Ft	ND	0.0050	0.010	-	0.281	0.006	0.026	F	23.7	2.00	5.00	-	4.11	0.526	2.11	- '
Pond 30	6	2/27/14	11.1	0.009	0.032	Ft	ND	0.0050	0.010	-	0.300	0.006	0.026	F	22.4	0.200	0.500		15.0	0.053	0.211	-
Pond 21	10	2/6/14	47.3	0.158	0.474	Ft	0.016	0.0050	0.010	-	3.11	0.006	0.026	F	161	2.00	5.00	-	45.5	0.526	2.11	-
Pond 20	11	2/6/14	78.6	0.158	0.474	Ft	0.034	0.0050	0.010	-	4.75	0.006	0.026	F	331	2.00	5.00	-	69.4	0.526	2.11	-
Pond 17 DS RW	15	2/6/14	10.6	0.158	0.474	Ft	0.0060	0.0050	0.010	J	0.394	0.006	0.026	F	149	2.00	5.00	-	16.7	0.526	2.11	-
Pond 17	17	2/6/14	3.53	0.158	0.474	Ft	ND	0.0050	0.010	-	0.124	0.006	0.026	F	17.1	0.200	0.500	-	25.6	0.526	2.11	-
Pond 9 DS RW	20	2/6/14	17.3	0.158	0.474	Ft	ND	0.0050	0.010	-	0.901	0.006	0.026	F	350	2.00	5.00	-	21.8	0.526	2.11	-
Pond 9	23	2/6/14	20.2	0.158	0.474	Ft	0.0060	0.0050	0.010	J	1.08	0.006	0.026	F	400	2.00	5.00	-	25.5	0.526	2.11	-
Pond 13 DS RW	24	2/27/14	2.81	0.009	0.032	-	ND	0.0050	0.010	-	0.367	0.006	0.026	-	23.0	0.200	0.500	-	13.0	0.053	0.211	-
Pond 13 A/B	27	2/27/14	3.43	0.009	0.032	-	-	-	-	-	0.644	0.006	0.026	-	19.7	0.200	0.500	-	7.37	0.053	0.211	-
Pond 13 A/B	27	2/28/14	-	-	-	-	ND	0.0050	0.010	-	-	-	-	-	-	-	-	-	-	-	-	-
DS Pond 4A, inflow to Pond 13	28	3/6/14	0.262	0.009	0.032	F	ND	0.0050	0.010	-	0.035	0.006	0.026	F	1.82	0.200	0.500	-	17.1	0.053	0.211	-
Pond 4A	31	3/6/14	0.265	0.009	0.032	F	ND	0.0050	0.010	-	0.047	0.006	0.026	F	1.30	0.200	0.500	-	59.4	0.053	0.211	-

#### Notes:

All locations were grab samples collected via "clean hands/dirty hands" EPA sampling method to the extent practicable

 $B = Detected \ by \ the \ instrument, \ the \ result \ is > the \ MDL \ but \le the \ MRL. \ Result \ is \ reported \ and \ considered \ an \ estimate.$ 

DS RW = downstream receiving water

J = Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

Ft = Analyte detected at trace concentration in field blank.

F = Analyte detected above the RL in field blank.

MDL = Method detection limit

ND = Not detected at or above the indicated MDL or RL.

mg/L = milligrams per liter

ng/L = nanograms per liter

RL = Reporting limit

U = Result is ≤ the method detection limit.

ug/L = micrograms per liter

# Table 3: PP13 Metals Summary Order Item No. 7

## Lehigh Southwest Cement Company Permanente Plant 1st Quarter 2014

Sample Location	Sample Number	Sample Date		Seleniu	ım (ug/	L)		Silver	(ug/L)			Thalliu	ım (ug/I	L)		Zinc	(ug/L)	
				163	8 DRC			16	38			1	.638			1	638	
			Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier	Result	MDL	RL	Qualifier
Downstream Location	1	2/6/14	6.49	0.105	0.316	-	0.009	0.005	0.021	В	0.117	0.003	0.011	-	9.19	0.06	0.21	F
Dup	1	2/6/14	6.42	0.105	0.316	-	0.007	0.005	0.021	В	0.111	0.003	0.011	-	8.91	0.06	0.21	F
Pond 30	6	2/27/14	14.6	0.021	0.063	-	0.011	0.005	0.021	В	0.068	0.003	0.011	-	18.9	0.06	0.21	F
Pond 21	10	2/6/14	4.94	0.105	0.316	-	0.087	0.005	0.021	-	0.451	0.003	0.011	-	56.7	0.06	0.21	F
Pond 20	11	2/6/14	9.11	0.105	0.316	-	0.133	0.005	0.021	-	0.741	0.003	0.011	-	90.6	0.06	0.21	F
Pond 17 DS RW	15	2/6/14	11.4	0.105	0.316	-	0.016	0.005	0.021	В	0.397	0.003	0.011	-	15.7	0.06	0.21	F
Pond 17	17	2/6/14	27.6	0.105	0.316	-	0.012	0.005	0.021	В	0.318	0.003	0.011	-	12.1	0.06	0.21	F
Pond 9 DS RW	20	2/6/14	7.31	0.105	0.316	-	0.034	0.005	0.021	-	0.599	0.003	0.011	-	28.2	0.06	0.21	F
Pond 9	23	2/6/14	7.71	0.105	0.316	-	0.044	0.005	0.021	-	0.618	0.003	0.011	-	33.2	0.06	0.21	F
Pond 13 DS RW	24	2/27/14	15.5	0.021	0.063	-	0.009	0.005	0.021	В	0.033	0.003	0.011	-	5.49	0.06	0.21	-
Pond 13 A/B	27	2/27/14	22.8	0.021	0.063	-	0.011	0.005	0.021	В	0.041	0.003	0.011	-	9.01	0.06	0.21	-
DS Pond 4A, inflow to Pond 13	28	3/6/14	44.2	0.021	0.063	-	ND	0.005	0.021	U	0.043	0.003	0.011	-	2.60	0.06	0.21	F
Pond 4A	31	3/6/14	33.8	0.021	0.063	-	ND	0.005	0.021	U	0.174	0.003	0.011	-	56.8	0.06	0.21	F

### Notes:

All locations were grab samples collected via "clean hands/dirty hands" EPA sampling method to the extent practicable

B = Detected by the instrument, the result is > the MDL but  $\leq$  the MRL. Result is reported and considered an estimate.

DS RW = downstream receiving water

J = Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

Ft = Analyte detected at trace concentration in field blank.

F = Analyte detected above the RL in field blank.

MDL = Method detection limit

ND = Not detected at or above the indicated MDL or RL.

mg/L = milligrams per liter

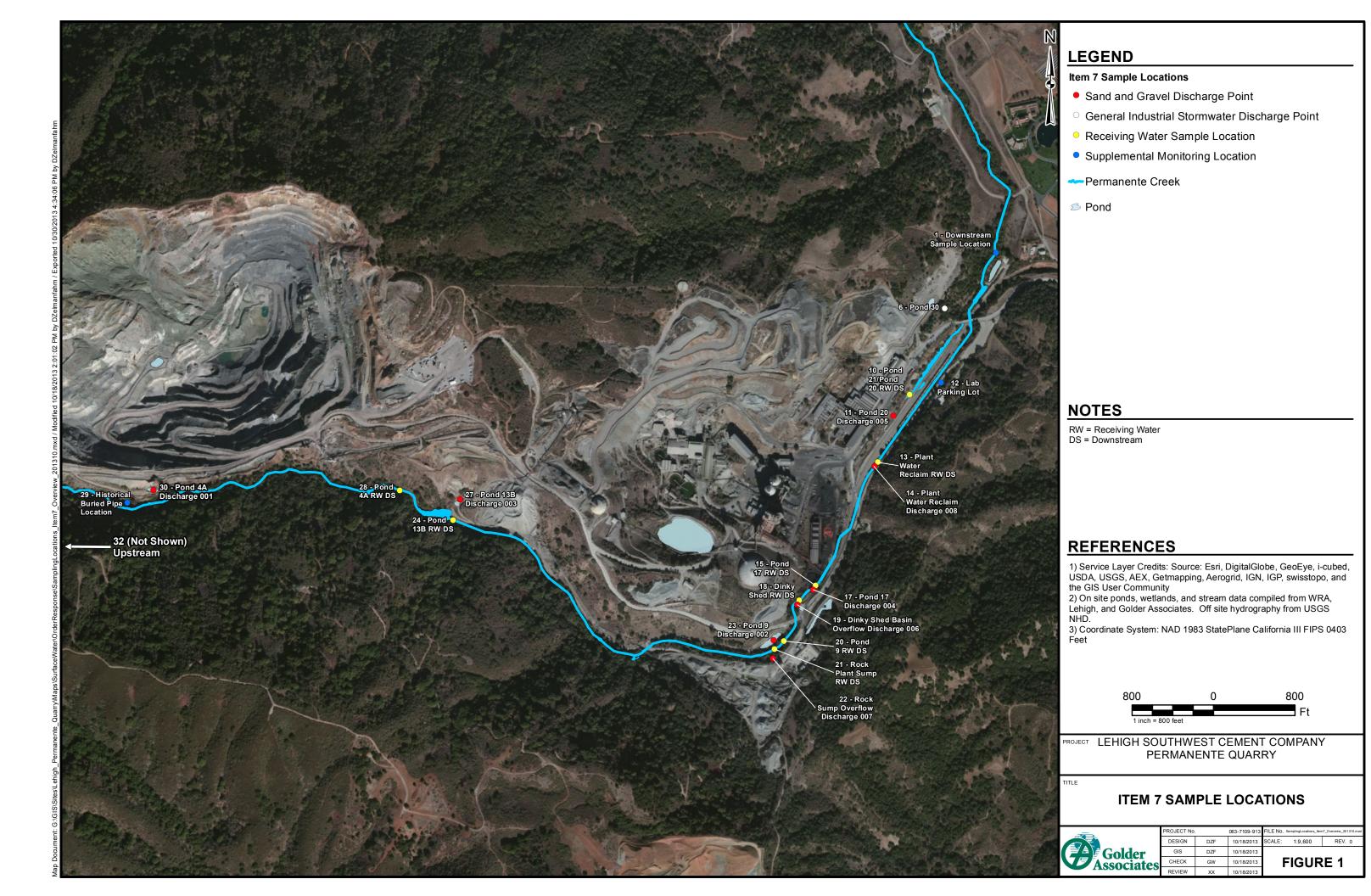
ng/L = nanograms per liter

RL = Reporting limit

U = Result is  $\leq$  the method detection limit.

ug/L = micrograms per liter









e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

13 January 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14A0083

Enclosed are the results of analyses for samples received by the laboratory on 01/02/14 22:20. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 01/13/14 13:52

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 EFFM-002	14A0083-01	Water	01/02/14 11:30	01/02/14 22:20
Pond 9UP R-001B	14A0083-02	Water	01/02/14 11:40	01/02/14 22:20
Pond 9DN R-002B	14A0083-03	Water	01/02/14 11:45	01/02/14 22:20



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 01/13/14 13:52

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	R MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 EFFM-002 (14A0083-01) Water	Sampled: 01/	02/14 11:30	Received	l: 01/02/1	4 22:20					
<b>Total Dissolved Solids</b>	1200	5.0	10	mg/l	1	AA40632	01/06/14 15:45	01/09/14 12:45	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AA40323	01/03/14 13:00	01/03/14 17:00	SM2540F	U
Pond 9UP R-001B (14A0083-02) Water	Sampled: 01/0	02/14 11:40	Received	l: 01/02/1	4 22:20					
<b>Total Dissolved Solids</b>	1200	5.0	10	mg/l	1	AA40632	01/06/14 15:45	01/09/14 12:45	SM2540C	
Pond 9DN R-002B (14A0083-03) Water	Sampled: 01/	02/14 11:45	Received	l: 01/02/1	4 22:20					
<b>Total Dissolved Solids</b>	1500	5.0	10	mg/l	1	AA40632	01/06/14 15:45	01/09/14 12:45	SM2540C	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 01/13/14 13:52

# Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

		R	eporting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 EFFM-002 (14A0083-01) Water	Sampled: 01/	02/14 11:30	Received	: 01/02/1	4 22:20					
Chloride	77	0.75	12	mg/l	25	AA40312	01/03/14 09:16	01/06/14 23:19	EPA 300.0	
Pond 9UP R-001B (14A0083-02) Water	Sampled: 01/0	02/14 11:40	Received	: 01/02/1	4 22:20					
Chloride	130	0.75	12	mg/l	25	AA40312	01/03/14 09:16	01/07/14 00:05	EPA 300.0	
Pond 9DN R-002B (14A0083-03) Water	Sampled: 01/	02/14 11:45	Received	: 01/02/1	4 22:20					
Chloride	82	0.75	12	mg/l	25	AA40312	01/03/14 09:16	01/07/14 00:20	EPA 300.0	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 01/13/14 13:52

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AA40632 - General Preparation											
Blank (AA40632-BLK1)					Prepared: 0	01/06/14 A	nalyzed: 01	/09/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AA40632-DUP1)		Source:	14A0083-01		Prepared: 0	01/06/14 A	nalyzed: 01	/09/14			
Total Dissolved Solids	1220	5.0	10	mg/l		1230			0.982	30	
Duplicate (AA40632-DUP2)		Source:	14A0083-02		Prepared: 0	01/06/14 A	nalyzed: 01	/09/14			
Total Dissolved Solids	1180	5.0	10	mg/l		1240			5.30	30	



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Lehigh Southwest Cement Company

11050

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 01/13/14 13:52

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

# Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AA40312 - General Preparation	n										
Blank (AA40312-BLK1)					Prepared &	Analyzed:	01/03/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AA40312-BS1)					Prepared &	Analyzed:	01/03/14				
Chloride	11.5	0.030	0.50	mg/l	11.1		103	90-110			
Duplicate (AA40312-DUP1)		Source: 14	4A0086-01		Prepared: (	01/03/14 A	nalyzed: 0	1/06/14			
Chloride	51.9	0.15	2.5	mg/l		51.9			0.0867	20	
Matrix Spike (AA40312-MS1)		Source: 14	4A0086-01		Prepared: (	01/03/14 A	nalyzed: 01	1/06/14			
Chloride	61.2	0.15	2.5	mg/l	11.1	51.9	83.7	80-120			
Matrix Spike (AA40312-MS2)		Source: 14	4A0073-01		Prepared: (	01/03/14 A	nalyzed: 01	1/06/14			
Chloride	38.4	0.060	1.0	mg/l	11.1	27.9	95.2	80-120			
Matrix Spike Dup (AA40312-MSD1)		Source: 14	4A0086-01		Prepared: (	01/03/14 A	nalyzed: 01	1/06/14			
Chloride	62.3	0.15	2.5	mg/l	11.1	51.9	93.7	80-120	1.80	20	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

 Project:
 Lehigh S & G Permit
 Reported:

 Project Number:
 063-7109-914
 01/13/14 13:52

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Golder Associates
CHAIN OF CUSTODY

Page Lof Ouotation No Investe Lebish

DEC FOT NO.		SITE	SITE NAME:	Libra	И.		ANALYSES		
PROJECT NO.:	n	1-1	,	WEEKIN	, , , , , , , , , , , , , , , , , , ,	2)			redui
063-1109-414	2	Leh	194	Lehigh Strper	sermit.	1914			Vyes
SAMPLER(S): David Welter		Da	J.C.	David ( Kalt		2501			EDF required?
CONTRACT LABORATORY:	70	Alpha	4		Container Info	207			Yes
	8	ion			Type/Vol.	المعارب		too	
Sample Lab I.D. I.D.	Date	je j	Matrix	Depth	Preserv.	2 1 2 1		aty.	Remarks
Rud 9 Eff m-002 Rud 9 40 R-001B Rud 9 DN R-002B	11.30   11.30   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45   11.45	1146	3 ->						Include J-Flags
Relinquished by, (signature) Relinquished by; (signature) Relinquished by; (signature)	It wen		Received by: (12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22   12 22	Received by: (fignature) Received by: (signature) Received by: (signature)		1-2-14   Date/Time:   1-3-14   Date/Time:   1-3-14   Date/Time:   1-3-14	1446 1930 1 2220	SEND RESULTS TO:  Attn: Scorge Weg Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9224 Fax (408) 220-9224	SEND RESULTS TO:  Attn: Scorge Wegmann, Greg Korpp, Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224



e-mail: clientservices@alpha-labs.com

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ELAP Certificate Numbers 1551 and 2728

21 January 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14A0239

Enclosed are the results of analyses for samples received by the laboratory on 01/06/14 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported:

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914 / Composite Lehigh S & G Permit

01/21/14 16:38

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Composite	14A0239-01	Water	01/03/14 13:10	01/06/14 21:45
Pond 17 Eff M-004	14A0239-02	Water	01/03/14 13:35	01/06/14 21:45
Pond 17DN R-002D	14A0239-03	Water	01/03/14 13:50	01/06/14 21:45



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914 / Composite Lehigh S & G Permit

Reported: 01/21/14 16:38

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	R MDL	Leporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 Composite (14A0239-01) Water	Sampled: 01	/03/14 13:10	Received	l: 01/06/1	4 21:45					
<b>Total Suspended Solids</b>	2.4	0.30	0.50	mg/l	1	AA40635	01/07/14 11:00	01/10/14 14:50	SM2540D	
Pond 17 Eff M-004 (14A0239-02) Water	Sampled: 01	/03/14 13:35	Receive	d: 01/06/1	4 21:45					
<b>Total Dissolved Solids</b>	1800	5.0	10	mg/l	1	AA40723	01/07/14 13:00	01/09/14 16:15	SM2540C	
<b>Total Suspended Solids</b>	5.2	0.30	0.50	"	"	AA40635	01/07/14 11:00	01/10/14 14:50	SM2540D	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AA40736	01/07/14 13:00	01/07/14 17:00	SM2540F	T-2, U
Pond 17DN R-002D (14A0239-03) Water	Sampled: 0	1/03/14 13:50	Receive	ed: 01/06/	14 21:45					
<b>Total Dissolved Solids</b>	1700	5.0	10	mg/l	1	AA40723	01/07/14 13:00	01/09/14 16:15	SM2540C	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 01/21/14 16:38

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914 / Composite Lehigh S & G Permit

## Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 17 Eff M-004 (14A0239-02) Water	Sampled: 01/	03/14 13:35	Received	1: 01/06/1	4 21:45					
Chloride	91	0.75	12	mg/l	25	AA40727	01/07/14 11:50	01/07/14 18:18	EPA 300.0	
Pond 17DN R-002D (14A0239-03) Water	Sampled: 01	/03/14 13:50	Receive	ed: 01/06/	14 21:45					
Chloride	91	0.75	12	mg/l	25	AA40727	01/07/14 11:50	01/07/14 18:33	EPA 300.0	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported:

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914 / Composite Lehigh S & G Permit

01/21/14 16:38

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AA40635 - General Prepar	ation										
Blank (AA40635-BLK1)					Prepared: (	01/06/14 A	nalyzed: 01/	10/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							Ţ
Duplicate (AA40635-DUP1)		Source: 1	4A0123-01		Prepared: (	01/06/14 A	nalyzed: 01/	10/14			
Total Suspended Solids	187	0.30	0.50	mg/l		213			13.4	30	
Duplicate (AA40635-DUP2)		Source: 1	4A0213-01		Prepared: (	01/06/14 A	nalyzed: 01/	10/14			
Total Suspended Solids	416	0.30	0.50	mg/l		452			8.29	30	
Batch AA40723 - General Prepar	ation										
Blank (AA40723-BLK1)					Prepared: (	01/07/14 A	Analyzed: 01/0	09/14			
Total Dissolved Solids	ND	5.0	10	mg/l							Ţ
<b>Duplicate (AA40723-DUP1)</b>		Source: 1	4A0226-01		Prepared: (	01/07/14 A	Analyzed: 01/0	09/14			
Total Dissolved Solids	580	5.0	10	mg/l		648			11.1	30	
Duplicate (AA40723-DUP2)		Source: 1	4A0258-02		Prepared: (	01/07/14 A	analyzed: 01/0	09/14			
Total Dissolved Solids	904	5.0	10	mg/l		908			0.442	30	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Reported:

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914 / Composite Lehigh S & G Permit

01/21/14 16:38

## Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AA40727 - General Preparation											
Blank (AA40727-BLK1)					Prepared &	Analyzed:	01/07/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AA40727-BS1)					Prepared &	Analyzed:	01/07/14				
Chloride	11.4	0.030	0.50	mg/l	11.1		103	90-110			
Duplicate (AA40727-DUP1)		Source: 14	4A0180-02		Prepared &	Analyzed:	01/07/14				
Chloride	50.6	0.15	2.5	mg/l		51.1			1.09	20	
Matrix Spike (AA40727-MS1)		Source: 14	4A0180-02		Prepared &	Analyzed:	01/07/14				
Chloride	62.4	0.15	2.5	mg/l	11.1	51.1	102	80-120			
Matrix Spike (AA40727-MS2)		Source: 14	1A0255-02		Prepared &	Analyzed	01/07/14				
Chloride	15.5	0.060	1.0	mg/l	11.1	4.62	98.1	80-120			
Matrix Spike Dup (AA40727-MSD1)		Source: 14	4A0180-02		Prepared &	: Analyzed:	: 01/07/14				
Chloride	62.5	0.15	2.5	mg/l	11.1	51.1	102	80-120	0.0979	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914 / Composite Lehigh S & G Permit

Reported: 01/21/14 16:38

#### **Notes and Definitions**

T-2 Sample analyzed outside of recommended holding time per client.

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

CHAIN OF CUSTODY Golder Associates

Page / of

1480239

out if hold it to run Settledue Souts Set Cit Quotation No. Inveice Lehigh Grey Knapp, Per 600096 1-8-14 Include J-flags O24 hr composite
DGrab 3 2 EDF required? Remarks EDD required? Yes Yes Attn: George Wegmann, Phone (408) 220-9223 Fax (408) 220-9224 Sunnyvale, CA 94085 Golder Associates Inc. SEND RESULTS TO: 425 Lakeside Drive Cont. 0091 A.F. ANALYSES h+4 1-3-14 Date/Time: ss Tes, chi Container Type/Vol. Preserv. Composite Info Filter Lehiah Stroermit Matrix Depth Band C. Valet SITE NAME: 1335 1.3.14 1316 Time Collection Date CONTRACT LABORATORY: David Walter TURN-AROUND TIME: **Associates** 8end 1704 R-0030 418-101-590 Pend 17EFF mooy Lab D 9 Composite Solder Golder PROJECT NO .: SAMPLER(S): Sample I.D. 000



Alpha Analytical Laboratories Inc. e-mail: clientservices@alpha-labs.com

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ELAP Certificate Numbers 1551 and 2728

22 January 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14A0558

Enclosed are the results of analyses for samples received by the laboratory on 01/09/14 22:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly Sampling/ 063-7109-914

Reported: 01/22/14 09:12

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 EFF M-002	14A0558-01	Water	01/09/14 11:35	01/09/14 22:10
Pond 9 UP R-001B	14A0558-02	Water	01/09/14 11:45	01/09/14 22:10
Pond 9 DN R-002B	14A0558-03	Water	01/09/14 11:55	01/09/14 22:10
Pond 17 EFF M-004	14A0558-04	Water	01/09/14 12:15	01/09/14 22:10
Pond 17 DN R-002D	14A0558-05	Water	01/09/14 12:25	01/09/14 22:10



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: Weekly Sampling/ 063-7109-914

Reported: 01/22/14 09:12

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 EFF M-002 (14A0558-01) Water	Sampled: 0	1/09/14 11:35	Receive	d: 01/09/1	4 22:10					
<b>Total Dissolved Solids</b>	1100	5.0	10	mg/l	1	AA41325	01/13/14 09:00	01/15/14 14:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AA41028	01/10/14 13:00	01/10/14 17:00	SM2540F	U
Pond 9 UP R-001B (14A0558-02) Water	Sampled: 01	1/09/14 11:45	Receive	d: 01/09/1	4 22:10					
<b>Total Dissolved Solids</b>	1400	5.0	10	mg/l	1	AA41325	01/13/14 09:00	01/15/14 14:00	SM2540C	
Pond 9 DN R-002B (14A0558-03) Water	Sampled: 0	1/09/14 11:55	Receive	d: 01/09/1	4 22:10					
<b>Total Dissolved Solids</b>	1200	5.0	10	mg/l	1	AA41325	01/13/14 09:00	01/15/14 14:00	SM2540C	
Pond 17 EFF M-004 (14A0558-04) Water	Sampled:	01/09/14 12:15	Receiv	ed: 01/09/	/14 22:10					
<b>Total Dissolved Solids</b>	1600	5.0	10	mg/l	1	AA41325	01/13/14 09:00	01/15/14 14:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AA41028	01/10/14 13:00	01/10/14 17:00	SM2540F	U
Pond 17 DN R-002D (14A0558-05) Water	Sampled:	01/09/14 12:25	Receiv	ed: 01/09	/14 22:10					
<b>Total Dissolved Solids</b>	1600	5.0	10	mg/l	1	AA41325	01/13/14 09:00	01/15/14 14:00	SM2540C	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: Weekly Sampling/ 063-7109-914

Reported: 01/22/14 09:12

# Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 EFF M-002 (14A0558-01) Water	Sampled: 01	/09/14 11:35	Received	: 01/09/1	4 22:10		•			
Chloride	73	0.75	12	mg/l	25	AA41359	01/13/14 15:56	01/14/14 00:47	EPA 300.0	
Pond 9 UP R-001B (14A0558-02) Water										
Chloride	130	0.75	12	mg/l	25	AA41359	01/13/14 15:56	01/14/14 01:02	EPA 300.0	
Pond 9 DN R-002B (14A0558-03) Water Sampled: 01/09/14 11:55 Received: 01/09/14 22:10										
Chloride	93	0.75	12	mg/l	25	AA41359	01/13/14 15:56	01/14/14 01:17	EPA 300.0	
Pond 17 EFF M-004 (14A0558-04) Water Sampled: 01/09/14 12:15				Received: 01/09/14 22:10						
Chloride	110	0.75	12	mg/l	25	AA41359	01/13/14 15:56	01/14/14 01:33	EPA 300.0	
Pond 17 DN R-002D (14A0558-05) Water Sampled: 01/09/14 12:25 Received: 01/09/14 22:10										
Chloride	100	0.75	12	mg/l	25	AA41359	01/13/14 15:56	01/14/14 01:48	EPA 300.0	



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%REC

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reporting

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: Weekly Sampling/ 063-7109-914

Spike

Source

Reported: 01/22/14 09:12

RPD

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

					~ [			,			I
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AA41325 - General Preparation	l										
Blank (AA41325-BLK1)				Prepared: 01/13/14 Analyzed: 01/15/14							
Total Dissolved Solids	ND	5.0	10	mg/l							U
<b>Duplicate (AA41325-DUP1)</b>		Source: 14	4A0558-05	1	Prepared: 01/13/14 Analyzed: 01/15/14						
Total Dissolved Solids	1620	5.0	10	mg/l		1590			1.75	30	
Duplicate (AA41325-DUP2)		Source: 14A0592-02		Prepared: 01/13/14 Analyzed: 01/15/14			/15/14				
Total Dissolved Solids	228	5.0	10	mg/l		210			8.22	30	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 01/22/14 09:12

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: Weekly Sampling/063-7109-914

Anions by EPA Method 300.0 - Quality Control

Alpha Analytical Laboratories, Inc. Reporting Spike %REC RPD Source

Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AA41359 - General Preparation	on										
Blank (AA41359-BLK1)					Prepared &	k Analyzed:	01/13/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AA41359-BS1)					Prepared &	k Analyzed:	01/13/14				
Chloride	11.1	0.030	0.50	mg/l	11.1		99.9	90-110			
Duplicate (AA41359-DUP1)		Source: 1	4A0656-01		Prepared &	k Analyzed:	01/13/14				
Chloride	15.1	0.030	0.50	mg/l		15.1			0.106	20	
Matrix Spike (AA41359-MS1)		Source: 1	4A0656-01		Prepared &	k Analyzed:	01/13/14				
Chloride	24.7	0.15	2.5	mg/l	11.1	15.1	86.4	80-120			
Matrix Spike (AA41359-MS2)		Source: 1	4A0481-02	2	Prepared: (	01/13/14 A	nalyzed: 01	/14/14			
Chloride	34.7	0.15	2.5	mg/l	11.1	23.9	96.8	80-120			
Matrix Spike Dup (AA41359-MSD1)		Source: 1	4A0656-01		Prepared &	ኔ Analyzed:	01/13/14				
Chloride	24.7	0.15	2.5	mg/l	11.1	15.1	86.5	80-120	0.0675	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Reported: 01/22/14 09:12

Project Number: Weekly Sampling/ 063-7109-914

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Golder Associates

Golder Associates CHAIN OF CUSTODY

14A0558 Page

Quotation No. Tayoice Lebig h

4220 Attn: George Wegmann, Gree Knapp, Golder Associates Inc. Chow Tip 425 Lakeside Drive No No Include J-flags EDD required? EDF required? Remarks Yes Yes Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224 Cont. Qty. SEND RESULTS TO: ANALYSES OKE 1903 1-9-14 1-6-14 1-8-14 TDS, Chloride 55, 705, Chloride 3 5 11 /64 SITE NAME: WEEKLY SOMPLING Container Type/Vol. Preserv. Lehigh Stb Dermit Info Filter Baril C. Kalt Received by: (signature) Received by: (signature) Matrix Depth Standard Time 1145 2161 Pad 9 Eff M-003 1-9-14 1135 Collection Date CONTRACT LABORATORY: mm/ David Walter 063-7109-914 TURN-AROUND TIME: Red 17 01 A-0020 Rond 17 Eff M-004 Rond 9 DN R-003B Lab I.D. Rad 9 UP R-001B PROJECT NO .: SAMPLER(S) Sample



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ELAP Certificate Numbers 1551 and 2728

21 January 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14A0598

Enclosed are the results of analyses for samples received by the laboratory on 01/13/14 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Reported:

Project Number: 063-7109-914

01/21/14 11:38

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Composite	14A0598-01	Water	01/10/14 10:50	01/13/14 21:00
Pond 17 Composite	14A0598-02	Water	01/10/14 11:10	01/13/14 21:00



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 01/21/14 11:38

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 Composite (14A0598-01) Water	Sampled: 01/1	0/14 10:50	Received	: 01/13/14	121:00					
<b>Total Suspended Solids</b>	2.8	0.30	0.50	mg/l	1	AA41355	01/14/14 12:30	01/20/14 10:16	SM2540D	
Pond 17 Composite (14A0598-02) Water	Sampled: 01	/10/14 11:10	Receive	d: 01/13/1	14 21:00					
<b>Total Suspended Solids</b>	8.7	0.30	0.50	mg/l	1	AA41355	01/14/14 12:30	01/20/14 10:16	SM2540D	



e-mail: clientservices@alpha-labs.com

%REC

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reporting

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Spike

Source

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 01/21/14 11:38

RPD

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AA41355 - General Preparati	ion										
Blank (AA41355-BLK1)					Prepared: (	01/13/14 A	nalyzed: 01	/20/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AA41355-DUP1)		Source: 1	4A0627-01		Prepared: (	01/13/14 A	nalyzed: 01	/20/14			
Total Suspended Solids	42.0	0.30	0.50	mg/l		38.0			10.0	30	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit Reported: 01/21/14 11:38 Project Number: 063-7109-914

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Golder Associates

# CHAIN OF CUSTODY Golder Associates

Quotation No. Invoice Lehiah Page of 2,0

14A0598

Attn: George Wegmann, Greg Knapp, Golder Associates Inc. Chow P.P No S Include J-flags EDD required? EDF required? Remarks Yes Yes Cont. SEND RESULTS TO: Oty. ANALYSES 1-10-14 Date/Time: 257 2 Container Info Type/Vol. Preserv. Lehigh 5+6 permit Composite Filter Band Chall Received by: (signature) Matrix Depth SITE NAME: 3 Standara 3 Time aso1 h1-01-1 1-10-14 1110 Collection Date CONTRACT LABORATORY: SAMPLER(S): David Walter TURN-AROUND TIME: 063-7109-914 Pond 9 composite Pand 17 Composite Lab I.D. nquished by (signatur PROJECT NO .: Sample I.D.

XC 14080 10173-140815 4644 WILL 1131471 - 114 WILL 1-13-14 31 -Rodre & SANFILLAN DUPINE 1/10/14

425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224

0/1/10

Received of (signature)

Received by: (signat



Alpha Analytical Laboratories Inc. e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

30 January 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14A0933

Enclosed are the results of analyses for samples received by the laboratory on 01/15/14 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 01/30/14 09:58

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Eff M-002	14A0933-01	Water	01/15/14 11:20	01/15/14 21:00
Pond 9 UP R-001B	14A0933-02	Water	01/15/14 11:30	01/15/14 21:00
Pond 9 DN R-002B	14A0933-03	Water	01/15/14 11:40	01/15/14 21:00
Pond 17 Eff M-004	14A0933-04	Water	01/15/14 12:20	01/15/14 21:00
Pond 17 DN R-002D	14A0933-05	Water	01/15/14 12:35	01/15/14 21:00



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Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 01/30/14 09:58

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

		Re	porting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 Eff M-002 (14A0933-01) Water	Sampled: 01/	15/14 11:20	Received	: 01/15/14 2	21:00					
<b>Total Dissolved Solids</b>	1300	5.0	10	mg/l	1	AA41707	01/17/14 09:00	01/21/14 13:45	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AA41714	01/16/14 13:00	01/16/14 17:00	SM2540F	U
Pond 9 UP R-001B (14A0933-02) Water	Sampled: 01	/15/14 11:30	Received	d: 01/15/14	21:00					
<b>Total Dissolved Solids</b>	1400	5.0	10	mg/l	1	AA41707	01/17/14 09:00	01/21/14 13:45	SM2540C	
Pond 9 DN R-002B (14A0933-03) Water	Sampled: 01	/15/14 11:40	Receive	d: 01/15/14	21:00					
<b>Total Dissolved Solids</b>	1300	5.0	10	mg/l	1	AA41707	01/17/14 09:00	01/21/14 13:45	SM2540C	
Pond 17 Eff M-004 (14A0933-04) Water	Sampled: 01	/15/14 12:20	Received	d: 01/15/14	21:00					
<b>Total Dissolved Solids</b>	1600	5.0	10	mg/l	1	AA41707	01/17/14 09:00	01/21/14 13:45	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AA41714	01/16/14 13:00	01/16/14 17:00	SM2540F	U
Pond 17 DN R-002D (14A0933-05) Water	Sampled: (	01/15/14 12:35	Receiv	ed: 01/15/1	4 21:00					
Total Dissolved Solids	1500	5.0	10	mg/l	1	AA41707	01/17/14 09:00	01/21/14 13:45	SM2540C	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

ompany

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 01/30/14 09:58

## Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	R MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 Eff M-002 (14A0933-01) Water	Sampled: 01/1	5/14 11:20	Received:	01/15/14	121:00					
Chloride	75	0.60	10	mg/l	20	AA42038	01/20/14 15:36	01/20/14 23:47	EPA 300.0	
Pond 9 UP R-001B (14A0933-02) Water	Sampled: 01/	15/14 11:30	Received	l: 01/15/1	4 21:00					
Chloride	140	0.75	12	mg/l	25	AA42038	01/20/14 15:36	01/21/14 00:02	EPA 300.0	
Pond 9 DN R-002B (14A0933-03) Water	Sampled: 01/	15/14 11:40	Received	1: 01/15/1	14 21:00					
Chloride	90	0.60	10	mg/l	20	AA42038	01/20/14 15:36	01/21/14 00:17	EPA 300.0	
Pond 17 Eff M-004 (14A0933-04) Water	Sampled: 01/	15/14 12:20	Received	l: 01/15/1	4 21:00					
Chloride	130	0.75	12	mg/l	25	AA42038	01/20/14 15:36	01/21/14 00:32	EPA 300.0	
Pond 17 DN R-002D (14A0933-05) Water	Sampled: 01	/15/14 12:3	5 Receive	ed: 01/15	/14 21:00					
Chloride	120	0.75	12	mg/l	25	AA42038	01/20/14 15:36	01/21/14 00:47	EPA 300.0	



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%REC

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reporting

Project: Lehigh S & G Permit Project Number: 063-7109-914

Spike

Source

Reported: 01/30/14 09:58

RPD

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

#### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AA41707 - General Preparation											
Blank (AA41707-BLK1)					Prepared: (	01/17/14 A	nalyzed: 01	/21/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AA41707-DUP1)		Source: 14	A0925-01		Prepared: (	01/17/14 A	nalyzed: 01	/21/14			
Total Dissolved Solids	301	5.0	10	mg/l		282			6.52	30	
Duplicate (AA41707-DUP2)		Source: 14	A0933-03		Prepared: (	01/17/14 A	nalyzed: 01	/21/14			
Total Dissolved Solids	1220	5.0	10	mg/l		1330			8.78	30	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 01/30/14 09:58

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

#### Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AA42038 - General Preparatio	n										
Blank (AA42038-BLK1)					Prepared: (	01/20/14 A	nalyzed: 01	1/21/14			
Chloride	ND	0.030	0.50	mg/l							U
LCS (AA42038-BS1)					Prepared &	. Analyzed	: 01/20/14				
Chloride	11.0	0.030	0.50	mg/l	11.1		99.0	90-110			
Duplicate (AA42038-DUP1)		Source: 14	4A1101-03		Prepared: (	01/20/14 A	nalyzed: 01	1/21/14			
Chloride	58.6	0.30	5.0	mg/l		58.3			0.530	20	
Matrix Spike (AA42038-MS1)		Source: 14	4A1101-03		Prepared: (	01/20/14 A	nalyzed: 01	1/21/14			
Chloride	68.3	0.30	5.0	mg/l	11.1	58.3	90.0	80-120			
Matrix Spike (AA42038-MS2)		Source: 14	4A1126-01		Prepared: (	01/20/14 A	nalyzed: 01	1/21/14			
Chloride	28.8	0.30	5.0	mg/l	11.1	18.4	94.2	80-120			
Matrix Spike Dup (AA42038-MSD1)		Source: 14	4A1101-03		Prepared: (	01/20/14 A	nalyzed: 01	1/21/14			
Chloride	68.2	0.30	5.0	mg/l	11.1	58.3	89.1	80-120	0.146	20	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 01/30/14 09:58

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Golder Associates

Golder Associates CHAIN OF CUSTODY

1440933

Page L of L Quotation No. Tavajce Lehigh

EDD required?	Wyes No	required,	Yes	*	n. 7. Remarks	Include J-flas								Wegmann, Greg Knapp,	Golder Associates Inc. Chow Yip	9223
	/ / /			-	Qty.									SEND RESULTS TO:	Golder Associates Inc. 425 Lakeside Drive	Phone (408) 220-9223 Fax (408) 220-9224
ANALYSES		1		+										1837	on81	The
	ופיוק	940 9	501	1/4						1				Date/Time: 1/5-1/4	PISTIME. Y	Date/Time:
	1		Container S	Type/Vol. 1/2, 1/L Filter		7	ì	7						The		1
SITE NAME: WEEKLY	Lehigh StG permi	Pavid Chalt	7		Matrix Depth	3		1	3					Received by: (signature)	Received py: (signature)	Repeived by (signature)
			RY: Alpha Standord	Collection	Date Time	1-15-14 1130	1130	1390	W 1435				-	1		
T NO.:	063-7109-914	R(S): d Walter	CONTRACT LABORATORY: TURN-AROUND TIME:		 	Pad 9 Eff m. 002 1-	Pond 948 R-0018	Pond 17 Eff M-ovy	Ocea-8 NO 21 Pros	İ				id C Hal	by: (signature)	by: (signature) WVM
PROJECT NO.:	063.	SAMPLER(S):  David L	CONTRA TURN-AR		Sample I.D.	Pad 9E	Pond 94	Pand 17	Pond 17		L			Relinquished by: (signature	Relinquished by: (signatur	Relinquished by: (signature)



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

03 February 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14A1018

Enclosed are the results of analyses for samples received by the laboratory on 01/16/14 21:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Reported:

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

01/30/14 11:36

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Composite	14A1018-01	Water	01/16/14 10:45	01/16/14 21:35
Pond 17 Composite	14A1018-02	Water	01/16/14 11:10	01/16/14 21:35



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 01/30/14 11:36

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 Composite (14A1018-01) Water	Sampled: 01/1	16/14 10:45	Received	: 01/16/14	21:35					
<b>Total Suspended Solids</b>	3.4	0.30	0.50	mg/l	1	AA42245	01/22/14 14:48	01/28/14 10:50	SM2540D	
Pond 17 Composite (14A1018-02) Water	Sampled: 01	/16/14 11:10	Receive	d: 01/16/1	4 21:35					
<b>Total Suspended Solids</b>	2.9	0.30	0.50	mg/l	1	AA42245	01/22/14 14:48	01/28/14 10:50	SM2540D	



e-mail: clientservices@alpha-labs.com

%REC

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reporting

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Spike

Source

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 01/30/14 11:36

RPD

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

					~ p	~ ~		,			I
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AA42245 - General Preparation	Ī										
Blank (AA42245-BLK1)					Prepared: (	01/22/14 A	nalyzed: 01	/28/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AA42245-DUP1)		Source: 1	4A0998-01	-	Prepared: (	01/22/14 A	nalyzed: 01	/28/14			
Total Suspended Solids	262	0.30	0.50	mg/l		267			1.78	30	
Duplicate (AA42245-DUP2)		Source: 1	4A1025-01	-	Prepared: (	01/22/14 A	nalyzed: 01	/28/14			
Total Suspended Solids	164	0.30	0.50	mg/l		140			15.8	30	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 01/30/14 11:36

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Golder Associates

CHAIN OF CUSTODY Golder Associates

14A1018

Quotation No. Invoice Lebig L Page ( of

No Include T- flags chow Fip S EDD required? EDF required? Remarks Yes YYes Attn: Grecge Wegman. Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224 Cont. SEND RESULTS TO: ANALYSÉS 1710 Date/Time: 551 7 5 Container Info Type/Vol. Preserv. Lehigh 5+6 permit Composite Filter Barid Chalt Depth Received by (signature) SITE NAME: Matrix 3 3 Time 5hol H-91-1 0111 11-11-1 Collection Date win CONTRACT LABORATORY: David Walter TURN-AROUND TIME: 063-7109-914 Pond 17 Composite Lab I.D. 9 Composite PROJECT NO .: SAMPLER(S) Sample I.D. Pond

137



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

06 February 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14A1333

Enclosed are the results of analyses for samples received by the laboratory on 01/23/14 21:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 02/06/14 13:20

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 EFF M-002	14A1333-01	Water	01/23/14 13:25	01/23/14 21:30
Pond 9 UP R-001B	14A1333-02	Water	01/23/14 13:35	01/23/14 21:30
Pond 9 DN R-002B	14A1333-03	Water	01/23/14 13:45	01/23/14 21:30
Pond 17 EFF M-004	14A1333-04	Water	01/23/14 14:00	01/23/14 21:30
Pond 17 DN R-002D	14A1333-05	Water	01/23/14 14:10	01/23/14 21:30



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 02/06/14 13:20

#### Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 17 DN R-002D (14A1333-05) Water	Sampled:	01/23/14 14:10	Receiv	ed: 01/23/	14 21:30					
Calcium	90	0.010	1.0	mg/l	1	AB40358	02/03/14 14:41	02/04/14 12:39	EPA 200.7	
Magnesium	33	0.0080	1.0	"	"	"	"	"	"	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 02/06/14 13:20

PO Box 660140 / Attention SSC AP - CEMENT

Conventional Chemistry Parameters by APHA/EPA Methods

		Alpha .	Analyt	ical La	borator	ies, Inc.				
Analyte	Result	Re MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 EFF M-002 (14A1333-01) Water	Sampled: 0	1/23/14 13:25	Receive	d: 01/23/1	14 21:30					
Total Dissolved Solids Total Settleable Solids	820 0.10	5.0 0.10	10 0.10	mg/l ml/l	1	AA42727 AA42408	01/27/14 09:00 01/24/14 15:00	01/30/14 08:30 01/24/14 17:00	SM2540C SM2540F	
Pond 9 UP R-001B (14A1333-02) Water	Sampled: 01	/23/14 13:35	Receive	d: 01/23/1	4 21:30					
<b>Total Dissolved Solids</b>	1500	5.0	10	mg/l	1	AA42727	01/27/14 09:00	01/30/14 08:30	SM2540C	
Pond 9 DN R-002B (14A1333-03) Water	Sampled: 0	1/23/14 13:45	Receive	d: 01/23/1	14 21:30					
<b>Total Dissolved Solids</b>	920	5.0	10	mg/l	1	AA42727	01/27/14 09:00	01/30/14 08:30	SM2540C	
Pond 17 EFF M-004 (14A1333-04) Water	Sampled:	)1/23/14 14:00	Receiv	ed: 01/23	/14 21:30					
Oil & Grease (HEM)	1.0	0.80	1.4	mg/l	1	AB40319	02/03/14 08:00	02/04/14 15:50	EPA 1664A	J
<b>Total Dissolved Solids</b>	2000	5.0	10	"	"	AA42727	01/27/14 09:00	01/30/14 08:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AA42408	01/24/14 15:00	01/24/14 17:00	SM2540F	U
Pond 17 DN R-002D (14A1333-05) Water	Sampled:	01/23/14 14:10	Receiv	ed: 01/23	/14 21:30					
Salinity	ND	2.0	2.0	g/kg	1	AB40325	02/03/14 08:53	02/05/14 15:43	SM2520B	U
<b>Total Dissolved Solids</b>	1100	5.0	10	mg/l	"	AA42727	01/27/14 09:00	01/30/14 08:30	SM2540C	
Hardness, Total	362	1	5	"	"	AB40358	02/03/14 14:41	02/04/14 12:39	SM2340B	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 02/06/14 13:20

## Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 EFF M-002 (14A1333-01) Water	Sampled: 01	/23/14 13:25	Received	l: 01/23/1	4 21:30					
Chloride	150	0.75	12	mg/l	25	AA42502	01/25/14 08:12	01/25/14 09:33	EPA 300.0	
Pond 9 UP R-001B (14A1333-02) Water	Sampled: 01/	23/14 13:35	Received	: 01/23/1	4 21:30					
Chloride	110	0.75	12	mg/l	25	AA42502	01/25/14 08:12	01/25/14 09:48	EPA 300.0	
Pond 9 DN R-002B (14A1333-03) Water	Sampled: 01	/23/14 13:45	Received	l: 01/23/1	4 21:30					
Chloride	140	0.75	12	mg/l	25	AA42502	01/25/14 08:12	01/25/14 10:04	EPA 300.0	
Pond 17 EFF M-004 (14A1333-04) Water	Sampled: 0	1/23/14 14:00	Receive	ed: 01/23/	14 21:30					
Chloride	110	0.75	12	mg/l	25	AA42502	01/25/14 08:12	01/25/14 10:19	EPA 300.0	
Pond 17 DN R-002D (14A1333-05) Water	Sampled: 0	1/23/14 14:10	Receive	ed: 01/23/	14 21:30					
Chloride	140	0.75	12	mg/l	25	AA42502	01/25/14 08:12	01/25/14 10:34	EPA 300.0	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit Project Number: 063-7109-914

Spiles

Reported: 02/06/14 13:20

DDD

#### Metals by EPA 200 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AB40358 - Metals Digest											
Blank (AB40358-BLK1)					Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Calcium	ND	0.010	1.0	mg/l							U
Magnesium	ND	0.0080	1.0	"							U
LCS (AB40358-BS1)					Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Calcium	5.33	0.010	1.0	mg/l	5.88		90.6	85-115			
Magnesium	6.95	0.0080	1.0	"	8.00		86.9	85-115			
Duplicate (AB40358-DUP1)		Source: 1	4A1637-02		Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Calcium	46.4	0.010	1.0	mg/l		45.4			2.12	20	
Magnesium	15.0	0.0080	1.0	"		14.9			0.670	20	
Matrix Spike (AB40358-MS1)		Source: 1	4A1637-02		Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Calcium	50.3	0.010	1.0	mg/l	5.88	45.4	84.2	70-130			
Magnesium	21.4	0.0080	1.0	"	8.00	14.9	81.5	70-130			
Matrix Spike (AB40358-MS2)		Source: 1	4A1754-01		Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Calcium	20.7	0.010	1.0	mg/l	5.88	15.0	96.5	70-130			
Magnesium	39.3	0.0080	1.0	"	8.00	30.1	115	70-130			
Matrix Spike Dup (AB40358-MSD1)		Source: 1	4A1637-02		Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Calcium	49.3	0.010	1.0	mg/l	5.88	45.4	66.8	70-130	2.05	20	QM-4X
Magnesium	22.0	0.0080	1.0	"	8.00	14.9	88.5	70-130	2.58	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/06/14 13:20

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AA42727 - General Preparati	on										
Blank (AA42727-BLK1)					Prepared: (	)1/27/14 A	nalyzed: 01	/30/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AA42727-DUP1)		Source: 1	14A1276-01		Prepared: (	01/27/14 A	nalyzed: 01	/30/14			
Total Dissolved Solids	536	5.0	10	mg/l		584			8.57	30	
Duplicate (AA42727-DUP2)		Source: 1	14A1302-01		Prepared: (	)1/27/14 A	nalyzed: 01	/30/14			
Total Dissolved Solids	296	5.0	10	mg/l		301			1.68	30	
Batch AB40319 - General Preparati	on										
Blank (AB40319-BLK1)					Prepared: (	)2/03/14 A	nalyzed: 02	/04/14			
Oil & Grease (HEM)	ND	0.80	1.4	mg/l							U
LCS (AB40319-BS1)					Prepared: (	)2/03/14 A	nalyzed: 02	/04/14			
Oil & Grease (HEM)	34.5	0.80	1.4	mg/l	40.0		86.2	78-114		18	
LCS Dup (AB40319-BSD1)					Prepared: (	02/03/14 A	nalyzed: 02	/04/14			
Oil & Grease (HEM)	37.1	0.80	1.4	mg/l	40.0		92.8	78-114	7.26	18	
Matrix Spike (AB40319-MS1)		Source: 1	14A1730-01		Prepared: (	02/03/14 A	nalyzed: 02	/04/14			
Oil & Grease (HEM)	18.2	0.80	1.4	mg/l	20.0	0.800	87.0	78-114		18	
Batch AB40358 - Metals Digest											
Blank (AB40358-BLK1)					Prepared: (	)2/03/14 A	nalyzed: 02	/04/14			
Hardness, Total	ND	1	5	mg/l							U



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/06/14 13:20

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch AB40358 - Metals Digest

Duplicate (AB40358-DUP1)		Source: 14A	1637-02		Prepared: 02/03/14 Analyzed: 02/04/14			
Hardness, Total	177	1	5	mg/l	175	1.61	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Reported: 02/06/14 13:20

Project Number: 063-7109-914

#### Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AA42502 - General Preparation	n										
Blank (AA42502-BLK1)					Prepared &	: Analyzed:	01/25/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AA42502-BS1)					Prepared &	Analyzed:	01/25/14				
Chloride	10.6	0.030	0.50	mg/l	10.0		106	90-110			
Duplicate (AA42502-DUP1)		Source: 14	A1367-03		Prepared &	Analyzed:	01/25/14				
Chloride	18.1	0.030	0.50	mg/l		18.2			0.674	20	
Matrix Spike (AA42502-MS1)		Source: 14	A1367-03		Prepared &	Analyzed:	01/25/14				
Chloride	27.7	0.15	2.5	mg/l	11.1	18.2	86.0	80-120			
Matrix Spike Dup (AA42502-MSD1)		Source: 14	A1367-03		Prepared &	Analyzed:	01/25/14				
Chloride	27.8	0.15	2.5	mg/l	11.1	18.2	86.3	80-120	0.120	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Reported: 02/06/14 13:20

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

#### **Notes and Definitions**

J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the QM-4X

spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD

Golder Associates

## Golder Associates CHAIN OF CUSTODY

STODY TEOLY Qual

Page L of L Quotation No. Tayerce Lebigh

1441333

PROJECT NO.:	S	SITE NAME:		ANALYSES	**	Charles Co.
416-6012		Lehigh St G permi	+	Sery Pi-	reso, ,	ednik
SAMPLER(S): David Walter		Paril C. Jets		90-	The state of the s	EDF required?
CONTRACT LABORATORY: TURN-AROUND TIME:	ORY: AL	4/pha indocd	Container Info	50, 70 50 Himins		Yes
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Bud 9 Eff m-002	733-14 1335	<i>S V</i>	1		7	
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Rend 9011 R-003B	3461	<u> </u>			The state of the s	Per boye (3)
Pond 17 EFF M-004	1,400					OK to pour into Hosoy
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		VIII WELL				

#### Sean Foley@Alpha Labs

From:

"Robbie Phillips" <Robbie@alpha-labs.com>

To: Sent: "Foley Sean" <sfoley@alpha-labs.com> Monday, February 03, 2014 8:53 AM

Attach: Subject: 14A1333 01 24 14 0819\_02.pdf Fw: Lehigh Pond 17 DN

From: Wegmann, George

Sent: Friday, January 31, 2014 5:01 PM
To: mailto:robbie@alpha-labs.com
Subject: FW: Lehigh Pond 17 DN

Hi Robbie,

As we discussed, please add salinity and hardness to Pond 17DN R-002D. Also, please run O&G on sample ID Pond 17 Eff M-004 if you can.

Thanks, George

George Wegmann | Senior Geologist | Golder Associates Inc.
425 Lakeside Drive, Sunnyvale, California, USA 94085
T: +1 (408) 220-9223 | D: +1 (408) 220-9233 | F: +1 (408) 220-9224 | E: George Wegmann@golder.com | www.golder.com

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Please consider the environment before printing this email.

From: DeVillier, Kimberly

Sent: Friday, January 31, 2014 4:57 PM

To: Wegmann, George Subject: Lehigh Pond 17 DN



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ELAP Certificate Numbers 1551 and 2728

06 February 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14A1423

Enclosed are the results of analyses for samples received by the laboratory on 01/27/14 21:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 02/06/14 14:27

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 EFF	14A1423-01	Water	01/24/14 09:40	01/27/14 21:10
Pond 17 EFF	14A1423-02	Water	01/24/14 10:00	01/27/14 21:10



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/06/14 14:27

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 EFF (14A1423-01) Water	Sampled: 01/24/14 0	9:40 Rec	eived: 01/27	7/14 21:10						
<b>Total Suspended Solids</b>	12	0.30	0.50	mg/l	1	AA42830	01/28/14 09:49	01/31/14 11:02	SM2540D	
Pond 17 EFF (14A1423-02) Water Sampled: 01/24/14 10:00 Received: 01/27/14 21:10										
<b>Total Suspended Solids</b>	3.6	0.30	0.50	mg/l	1	AA42830	01/28/14 09:49	01/31/14 11:02	SM2540D	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Doporting

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/06/14 14:27

DDD

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%KEC		KPD	1
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AA42830 - General Preparatio	n										
Blank (AA42830-BLK1)					Prepared: (	01/28/14 A	nalyzed: 01	/31/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AA42830-DUP1)		Source: 1	4A1348-01		Prepared: (	01/28/14 A	nalyzed: 01	/31/14			
Total Suspended Solids	867	0.30	0.50	mg/l		867			0.00	30	
Duplicate (AA42830-DUP2)		Source: 1	4A1304-01		Prepared: (	01/28/14 A	nalyzed: 01	/31/14			
Total Suspended Solids	504	0.30	0.50	mg/l		512			1.57	30	



e-mail: clientservices@alpha-labs.com

Reported:

02/06/14 14:27

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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit

Project Number: 063-7109-914

#### **Notes and Definitions**

Project Manager: Chow Yip

U Analyte included in analysis, but not detected at or above MDL.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Golder Associates

14A1423 4.5

Associates	8		CHAI	CHAIN OF CUSTODY	
PROJECT NO.:		SITE NAME:	Comoneite	ANALYSES	Consider No. Largice Lehigh
063-7109-914		Lehigh StG Der	Per it		EDD required?
SAMPLER(S): David Walter	÷ ;	David C. Yalt			
CONTRACT LABORATORY: TURN-AROUND TIME:	ORY:	4 / pha	Container	\$1	EDF required? Yes
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2					

Attn: Grouge Weggman, Greg Knapp, Golder Associates Inc. Chow Yip Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224

1/24/14 13:00

S/B

Date/Time.

SEND RESULTS TO:

15:0r



e-mail: clientservices@alpha-labs.com

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ELAP Certificate Numbers 1551 and 2728

13 February 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14A1730

Enclosed are the results of analyses for samples received by the laboratory on 01/30/14 21:25. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 02/13/14 09:45

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 EFF M-002	14A1730-01	Water	01/30/14 09:50	01/30/14 21:25
Pond 9 UP R-001B	14A1730-02	Water	01/30/14 10:00	01/30/14 21:25
Pond 9 DN R-002B	14A1730-03	Water	01/30/14 10:10	01/30/14 21:25



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 02/13/14 09:45

#### Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 UP R-001B (14A1730-02) Water	Sampled: 0	1/30/14 10:00	Receive	d: 01/30/1	4 21:25					
Calcium	200	0.010	1.0	mg/l	1	AB40358	02/03/14 14:41	02/04/14 12:50	EPA 200.7	
Magnesium	69	0.0080	1.0	"	"	"	II .	"	"	
Pond 9 DN R-002B (14A1730-03) Water	Sampled: 0	1/30/14 10:10	Receive	d: 01/30/1	14 21:25					
Calcium	160	0.010	1.0	mg/l	1	AB40358	02/03/14 14:41	02/04/14 12:55	EPA 200.7	
Magnesium	54	0.0080	1.0	"	"	"	II .	"	"	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/13/14 09:45

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Ro MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 EFF M-002 (14A1730-01) Water	Sampled: 01	/30/14 09:50	Receive	d: 01/30/	14 21:25					
Oil & Grease (HEM)	0.80	0.80	1.4	mg/l	1	AB40319	02/03/14 08:00	02/04/14 15:50	EPA 1664A	J
<b>Total Dissolved Solids</b>	960	5.0	10	"	"	AB40322	02/03/14 09:00	02/05/14 08:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AA43146	01/31/14 13:00	01/31/14 17:00	SM2540F	U
Pond 9 UP R-001B (14A1730-02) Water	Sampled: 01	/30/14 10:00	Receive	d: 01/30/1	4 21:25					
Salinity	ND	2.0	2.0	g/kg	1	AB40325	02/03/14 08:53	02/05/14 15:38	SM2520B	U
<b>Total Dissolved Solids</b>	1300	5.0	10	mg/l	"	AB40322	02/03/14 09:00	02/05/14 08:30	SM2540C	
Hardness, Total	794	1	5	"	"	AB40358	02/03/14 14:41	02/04/14 12:50	SM2340B	
Pond 9 DN R-002B (14A1730-03) Water	Sampled: 01	/30/14 10:10	Receive	d: 01/30/	14 21:25					
Salinity	ND	2.0	2.0	g/kg	1	AB40325	02/03/14 08:53	02/05/14 15:38	SM2520B	U
<b>Total Dissolved Solids</b>	1100	5.0	10	mg/l	"	AB40322	02/03/14 09:00	02/05/14 08:30	SM2540C	
Hardness, Total	612	1	5	"	"	AB40358	02/03/14 14:41	02/04/14 12:55	SM2340B	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 02/13/14 09:45

# Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

		Re	eporting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 EFF M-002 (14A1730-01) Water	Sampled: 01	/30/14 09:50	Receive	d: 01/30/1	14 21:25					
Chloride	96	0.75	12	mg/l	25	AA43111	01/31/14 12:28	01/31/14 21:29	EPA 300.0	
Pond 9 UP R-001B (14A1730-02) Water	Sampled: 01	/30/14 10:00	Received	1: 01/30/1	14 21:25					
Chloride	120	0.75	12	mg/l	25	AA43111	01/31/14 12:28	01/31/14 21:44	EPA 300.0	
Pond 9 DN R-002B (14A1730-03) Water	Sampled: 01	/30/14 10:10	Receive	d: 01/30/	14 21:25					
Chloride	100	0.75	12	mg/l	25	AA43111	01/31/14 12:28	01/31/14 21:59	EPA 300.0	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reported:

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit Project Number: 063-7109-914

02/13/14 09:45

# Metals by EPA 200 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AB40358 - Metals Digest											
Blank (AB40358-BLK1)					Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Calcium	ND	0.010	1.0	mg/l							U
Magnesium	ND	0.0080	1.0	"							U
LCS (AB40358-BS1)					Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Calcium	5.33	0.010	1.0	mg/l	5.88		90.6	85-115			
Magnesium	6.95	0.0080	1.0	"	8.00		86.9	85-115			
Duplicate (AB40358-DUP1)		Source: 1	4A1637-02		Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Calcium	46.4	0.010	1.0	mg/l		45.4			2.12	20	
Magnesium	15.0	0.0080	1.0	"		14.9			0.670	20	
Matrix Spike (AB40358-MS1)		Source: 1	4A1637-02		Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Calcium	50.3	0.010	1.0	mg/l	5.88	45.4	84.2	70-130			
Magnesium	21.4	0.0080	1.0	"	8.00	14.9	81.5	70-130			
Matrix Spike (AB40358-MS2)		Source: 1	4A1754-01		Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Calcium	20.7	0.010	1.0	mg/l	5.88	15.0	96.5	70-130			
Magnesium	39.3	0.0080	1.0	"	8.00	30.1	115	70-130			
Matrix Spike Dup (AB40358-MSD1)		Source: 1	4A1637-02		Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Calcium	49.3	0.010	1.0	mg/l	5.88	45.4	66.8	70-130	2.05	20	QM-4X
Magnesium	22.0	0.0080	1.0	"	8.00	14.9	88.5	70-130	2.58	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Reported: 02/13/14 09:45 Project Number: 063-7109-914

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB40319 - General Preparatio	n										
Blank (AB40319-BLK1)					Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Oil & Grease (HEM)	ND	0.80	1.4	mg/l							U
LCS (AB40319-BS1)					Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Oil & Grease (HEM)	34.5	0.80	1.4	mg/l	40.0		86.2	78-114		18	
LCS Dup (AB40319-BSD1)					Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Oil & Grease (HEM)	37.1	0.80	1.4	mg/l	40.0		92.8	78-114	7.26	18	
Matrix Spike (AB40319-MS1)		Source: 1	4A1730-01		Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Oil & Grease (HEM)	18.2	0.80	1.4	mg/l	20.0	0.800	87.0	78-114		18	
Batch AB40322 - General Preparatio	n										
Blank (AB40322-BLK1)					Prepared: (	02/03/14 A	nalyzed: 02	2/05/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AB40322-DUP1)		Source: 1	4A1635-01		Prepared: (	02/03/14 A	nalyzed: 02	2/05/14			
Total Dissolved Solids	361	5.0	10	mg/l		352			2.52	30	
<b>Duplicate (AB40322-DUP2)</b>		Source: 1	4A1730-01		Prepared: (	02/03/14 A	nalyzed: 02	2/05/14			
Total Dissolved Solids	1010	5.0	10	mg/l		964			4.46	30	
Batch AB40358 - Metals Digest											
Blank (AB40358-BLK1)					Prepared: (	02/03/14 A	nalyzed: 02	2/04/14			
Hardness, Total	ND	1	5	mg/l							U



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/13/14 09:45

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch AB40358 - Metals Digest

Duplicate (AB40358-DUP1)		Source: 14A1	1637-02		Prepared: 02/03/14 Analyzed: 02/04/14			
Hardness, Total	177	1	5	mg/l	175	1.61	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 02/13/14 09:45

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

# Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AA43111 - General Preparation	l										
Blank (AA43111-BLK1)					Prepared &	Analyzed	: 01/31/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AA43111-BS1)					Prepared &	Analyzed	: 01/31/14				
Chloride	10.2	0.030	0.50	mg/l	10.0		102	90-110			
Duplicate (AA43111-DUP1)		Source: 1	4A1704-01		Prepared &	Analyzed	: 01/31/14				
Chloride	2.62	0.030	0.50	mg/l		2.61			0.0765	20	
Matrix Spike (AA43111-MS1)		Source: 1	4A1704-01		Prepared &	Analyzed	: 01/31/14				
Chloride	14.2	0.030	0.50	mg/l	11.1	2.61	104	80-120			
Matrix Spike (AA43111-MS2)		Source: 1	4A1713-01		Prepared &	Analyzed	: 01/31/14				
Chloride	54.8	0.15	2.5	mg/l	11.1	43.7	100	80-120			
Matrix Spike Dup (AA43111-MSD1)		Source: 1	4A1704-01		Prepared &	Analyzed	: 01/31/14				
Chloride	14.2	0.030	0.50	mg/l	11.1	2.61	104	80-120	0.133	20	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 02/13/14 09:45

#### **Notes and Definitions**

J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the

spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Golder Associates

Golder Associates CHAIN OF CUSTODY

HI 1.5U Page Lof L Quotation No. Invesice Lebigh

		1								
PROJECT NO .:	<u>.,</u>	SITE NAME	SITE NAME: MON+4/4	ーノシ		AN	ANALYSES		T	EDD required?
163-7109-914		Lehigh StGpermit	5+6 pen	+:1	914 50.		* :		11	Yes
SAMPLER(S): David Walter		gand (sig	gard Chalk		+ m. t.		** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** *** **	t an total		EDF required?
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Sample Lab	Date Time	ne Matrix	Depth	Preserv.	H2504		† 4 †		Qty.	Remarks
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Rethousped by (signature)	(uron	Repeived	Repeived by, (signature)			Date/Time:	NS	Phone (4 Fax (408)	Phone (408) 220-9223 Fax (408) 220-9224	23



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ELAP Certificate Numbers 1551 and 2728

12 February 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14B0002

Enclosed are the results of analyses for samples received by the laboratory on 02/03/14 08:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/12/14 13:25

Project Number. 003-7109-914

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Composite	14B0002-01	Water	01/31/14 09:15	02/03/14 08:00



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/12/14 13:25

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 Composite (14B0002-01) Water	Sampled: 01/3	31/14 09:15	Received	: 02/03/1	4 08:00					
Total Suspended Solids	ND	0.30	0.50	mg/l	1	AB40337	02/03/14 11:00	02/07/14 12:10	SM2540D	U



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 02/12/14 13:25

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Thatye	resurt	WIDE	Liiiit	Cints	Level	resuit	7 URLE	Limits	пав	Liiiit	110103
<b>Batch AB40337 - General Preparation</b>	1										
Blank (AB40337-BLK1)					Prepared: (	02/03/14 A	nalyzed: 02/	07/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AB40337-DUP1)		Source:	14A1703-01		Prepared: (	)2/03/14 A	nalyzed: 02/	07/14			
Total Suspended Solids	13.8	0.30	0.50	mg/l		15.5			11.6	30	
Duplicate (AB40337-DUP2)		Source:	14A1706-01		Prepared: (	02/03/14 A	nalyzed: 02/	07/14			
Total Suspended Solids	186	0.30	0.50	mg/l		186			0.00	30	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 02/12/14 13:25

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Golder Associates

# Golder Associates

1480002

5,0

Lehigh S No No Quotation No. Invaice Include T-flags EDD required? EDF required? Remarks Yes Yes Attn: (Stage Weyngann Golder Associates Inc. Cont. SEND RESULTS TO: 425 Lakeside Drive Attn: 00E ANALYSES CHAIN OF CUSTODY 1/31/14 551 DU Fridge Container Info Type/Vol. Preserv. Composite Filter Chigh Ste permit Band Clak Matrix Depth SITE NAME: Time 0915 Collection Date 1-3-14 CONTRACT LABORATORY: David Walter TURN-AROUND TIME: 063-7109-914 9 Composite Lab D PROJECT NO .: SAMPLER(S) Sample I.D.

Phone (408) 220-9223 Fax (408) 220-9224 Sunnyvale, CA 94085

2:00

Date/Time:

Relinquished by: (signature,

white: lab copy

5-3-14



e-mail: clientservices@alpha-labs.com

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ELAP Certificate Numbers 1551 and 2728

26 February 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14B0521

Enclosed are the results of analyses for samples received by the laboratory on 02/06/14 21:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 02/26/14 13:57

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Comp	14B0521-01	Water	02/06/14 12:10	02/06/14 21:50
Pond 17 Comp	14B0521-02	Water	02/06/14 12:50	02/06/14 21:50



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/26/14 13:57

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 Comp (14B0521-01) Water	Sampled: 02/06/14	12:10 R	Received: 02/0	06/14 21::	50					
<b>Total Suspended Solids</b>	6.5	0.30	0.50	mg/l	1	AB41032	02/10/14 09:06	02/12/14 12:45	SM2540D	
Pond 17 Comp (14B0521-02) Water	Sampled: 02/06/14	1 12:50	Received: 02	/06/14 21	:50					
<b>Total Suspended Solids</b>	3.4	0.30	0.50	mg/l	1	AB41032	02/10/14 09:06	02/12/14 12:45	SM2540D	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Reported: 02/26/14 13:57

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB41032 - General Preparation											
Blank (AB41032-BLK1)					Prepared: 0	02/10/14 A	nalyzed: 02/	12/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AB41032-DUP1)		Source: 1	4B0495-01		Prepared: 0	02/10/14 A	nalyzed: 02/	12/14			
Total Suspended Solids	1120	0.30	0.50	mg/l		1140			1.10	30	
Duplicate (AB41032-DUP2)		Source: 1	4B0508-01		Prepared: 0	02/10/14 A	nalyzed: 02/	12/14			
Total Suspended Solids	1400	0.30	0.50	mg/l		1380			0.719	30	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 02/26/14 13:57

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Golder Associates

Golder Associates
CHAIN OF CUSTODY

Page of Ouotation No. Po4500554281

Attn: George Wegmann, Gregknapp Golder Associates Inc. Chow Y.p 3 2 EDD required? EDF required? Remarks Kes Yes Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224 SEND RESULTS TO: Cont. 1820 212 1620 アトコイ LLARE 551 5 1 Container Info Type/Vol. Preserv. Compesite Filter Lehigh Stepermit Wed by (signatury) Band Glut Matrix Depth SITE NAME: Standard 3 # / pha Time 1310 058) Collection David Walter 41-9-€ Date 7-6-14 CONTRACT LABORATORY: TURN-AROUND TIME: 416-6012-890 Lab I.D. Pand 17 domp PROJECT NO.: Pond 9 Comp SAMPLER(S): Sample I.D.



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ELAP Certificate Numbers 1551 and 2728

26 February 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14B0524

Enclosed are the results of analyses for samples received by the laboratory on 02/06/14 21:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 02/26/14 13:47

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 EFF M-002	14B0524-01	Water	02/06/14 12:10	02/06/14 21:30
Pond 17 EFF M-004	14B0524-02	Water	02/06/14 12:50	02/06/14 21:30
Pond 20 EFF M-005	14B0524-03	Water	02/06/14 08:30	02/06/14 21:30
Pond 9 UP R-001B	14B0524-04	Water	02/06/14 12:20	02/06/14 21:30
Pond 9 DN R-002B	14B0524-05	Water	02/06/14 12:30	02/06/14 21:30
Pond 17 DN R-002D	14B0524-06	Water	02/06/14 13:05	02/06/14 21:30
Pond 20 DN/21	14B0524-07	Water	02/06/14 08:50	02/06/14 21:30
Downstream	14B0524-08	Water	02/06/14 13:40	02/06/14 21:30
Duplicate	14B0524-09	Water	02/06/14 13:50	02/06/14 21:30
Field Blank	14B0524-10	Water	02/06/14 13:30	02/06/14 21:30



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 02/26/14 13:47

#### Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

Analista	D1'		eporting	**	D.1 .:	D . 1	D 1		Madha J	Note:
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 UP R-001B (14B0524-04) Water	Sampled: 0	2/06/14 12:20	Receive	d: 02/06/1	4 21:30					
Calcium	230	0.010	1.0	mg/l	1	AB41248	02/12/14 13:47	02/14/14 16:42	EPA 200.7	
Magnesium	75	0.0080	1.0	"	"	"	"	"	"	
Pond 9 DN R-002B (14B0524-05) Water	Sampled: (	02/06/14 12:30	Receive	d: 02/06/1	4 21:30					
Calcium	130	0.010	1.0	mg/l	1	AB41248	02/12/14 13:47	02/14/14 16:46	EPA 200.7	
Magnesium	31	0.0080	1.0	"	"	"	"	"	"	
Pond 17 DN R-002D (14B0524-06) Water	Sampled:	02/06/14 13:0	5 Receiv	red: 02/06	/14 21:30					
Calcium	210	0.010	1.0	mg/l	1	AB41248	02/12/14 13:47	02/14/14 16:50	EPA 200.7	
Magnesium	33	0.0080	1.0	"	"	"	"	"	"	
Pond 20 DN/21 (14B0524-07) Water Sa	mpled: 02/0	5/14 08:50 Re	ceived: 0	2/06/14 21	1:30					
Calcium	280	0.010	1.0	mg/l	1	AB41248	02/12/14 13:47	02/14/14 16:54	EPA 200.7	
Magnesium	22	0.0080	1.0	"	"	"	"	"	"	
Downstream (14B0524-08) Water Samp	pled: 02/06/1	4 13:40 Rece	ived: 02/(	06/14 21:3	0					
Calcium	150	0.010	1.0	mg/l	1	AB41248	02/12/14 13:47	02/14/14 16:58	EPA 200.7	
Magnesium	38	0.0080	1.0	"	"	"	"	"	"	
Duplicate (14B0524-09) Water Sampled	l: 02/06/14 1	3:50 Receive	d: 02/06/1	4 21:30						
Calcium	140	0.010	1.0	mg/l	1	AB41248	02/12/14 13:47	02/14/14 17:19	EPA 200.7	
Magnesium	36	0.0080	1.0	"	"	"	"	"	II .	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 02/26/14 13:47

#### Metals by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

			Reporting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 EFF M-002 (14B0524-01) Water	Sampled:	02/06/14 12:1	0 Receive	d: 02/06/1	4 21:30					
Chromium, hexavalent	0.0060	0.0050	0.010	mg/l	1	AB42028	02/20/14 15:15	02/20/14 16:56	SM3500-Cr B	J
Mercury	400	2.00	5.00	ng/l	10	AB42467	02/24/14 17:00	02/25/14 13:02	EPA 1631E	
Pond 17 EFF M-004 (14B0524-02) Water	Sampled:	02/06/14 12:	50 Receiv	ed: 02/06/	14 21:30					
Chromium, hexavalent	ND	0.0050	0.010	mg/l	1	AB42028	02/20/14 15:15	02/20/14 16:56	SM3500-Cr B	U
Mercury	17.1	0.200	0.500	ng/l	"	AB42467	02/24/14 17:00	02/25/14 13:11	EPA 1631E	
Pond 20 EFF M-005 (14B0524-03) Water	Sampled:	02/06/14 08:	30 Receiv	ed: 02/06/	14 21:30					
Chromium, hexavalent	0.034	0.0050	0.010	mg/l	1	AB42028	02/20/14 15:15	02/20/14 16:56	SM3500-Cr B	
Mercury	331	2.00	5.00	ng/l	10	AB42467	02/24/14 17:00	02/25/14 13:35	EPA 1631E	
Pond 9 DN R-002B (14B0524-05) Water	Sampled:	02/06/14 12:3	0 Receive	d: 02/06/1	4 21:30					
Chromium, hexavalent	ND	0.0050	0.010	mg/l	1	AB42028	02/20/14 15:15	02/20/14 16:56	SM3500-Cr B	U
Mercury	350	2.00	5.00	ng/l	10	AB42467	02/24/14 17:00	02/25/14 13:43	EPA 1631E	
Pond 17 DN R-002D (14B0524-06) Water	Sampled	: 02/06/14 13:	05 Receiv	ed: 02/06	/14 21:30					
Chromium, hexavalent	0.0060	0.0050	0.010	mg/l	1	AB42028	02/20/14 15:15	02/20/14 16:56	SM3500-Cr B	J
Mercury	149	2.00	5.00	ng/l	10	AB42467	02/24/14 17:00	02/25/14 13:51	EPA 1631E	
Pond 20 DN/21 (14B0524-07) Water San	mpled: 02/0	6/14 08:50 F	Received: 02	2/06/14 21	:30					
Chromium, hexavalent	0.016	0.0050	0.010	mg/l	1	AB42028	02/20/14 15:15	02/20/14 16:56	SM3500-Cr B	
Mercury	161	2.00	5.00	ng/l	10	AB42467	02/24/14 17:00	02/25/14 14:16	EPA 1631E	
Downstream (14B0524-08) Water Samp	oled: 02/06/1	14 13:40 Red	ceived: 02/0	06/14 21:3	0					
Chromium, hexavalent	ND	0.0050	0.010	mg/l	1	AB42028	02/20/14 15:15	02/20/14 16:56	SM3500-Cr B	U
Mercury	23.2	2.00	5.00	ng/l	10	AB42467	02/24/14 17:00	02/25/14 14:24	EPA 1631E	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 02/26/14 13:47

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

#### Metals by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Duplicate (14B0524-09) Water S	ampled: 02/06/14 1	3:50 Recei	ived: 02/06/	14 21:30						
Chromium, hexavalent	ND	0.0050	0.010	mg/l	1	AB42028	02/20/14 15:15	02/20/14 16:56	SM3500-Cr B	U
Mercury	23.7	2.00	5.00	ng/l	10	AB42467	02/24/14 17:00	02/25/14 14:32	EPA 1631E	
Field Blank (14B0524-10) Water	Sampled: 02/06/14	13:30 Red	ceived: 02/0	6/14 21:30	ı					
Mercury	ND	0.200	0.500	ng/l	1	AB42467	02/24/14 17:00	02/25/14 14:40	EPA 1631E	U



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 02/26/14 13:47

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Ro MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 EFF M-002 (14B0524-01) Water	Sampled: 02	2/06/14 12:10	Receive	d: 02/06/1	14 21:30					
Oil & Grease (HEM)	1.0	0.80	1.4	mg/l	1	AB41129	02/11/14 08:00	02/14/14 13:00	EPA 1664A	J
<b>Total Dissolved Solids</b>	840	5.0	10	"	"	AB41237	02/12/14 13:30	02/18/14 15:30	SM2540C	
<b>Total Settleable Solids</b>	0.50	0.10	0.10	ml/l	"	AB41140	02/07/14 13:00	02/07/14 17:00	SM2540F	
Pond 17 EFF M-004 (14B0524-02) Water	Sampled: 02/06/14 12:50		Received: 02/06/14 21:30							
Oil & Grease (HEM)	1.3	0.80	1.4	mg/l	1	AB41129	02/11/14 08:00	02/14/14 13:00	EPA 1664A	J
<b>Total Dissolved Solids</b>	1900	5.0	10	"	"	AB41237	02/12/14 13:30	02/18/14 15:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AB41140	02/07/14 13:00	02/07/14 17:00	SM2540F	U
Pond 20 EFF M-005 (14B0524-03) Water	Sampled: (	02/06/14 08:30	Receiv	ed: 02/06	/14 21:30					
Oil & Grease (HEM)	2.0	0.80	1.4	mg/l	1	AB41129	02/11/14 08:00	02/14/14 13:00	EPA 1664A	
<b>Total Dissolved Solids</b>	1000	5.0	10	"	"	AB41237	02/12/14 13:30	02/18/14 15:30	SM2540C	
<b>Total Suspended Solids</b>	480	0.30	0.50	"	"	AB41151	02/11/14 12:11	02/13/14 12:00	SM2540D	
<b>Total Settleable Solids</b>	1.2	0.10	0.10	ml/l	"	AB41140	02/07/14 13:00	02/07/14 17:00	SM2540F	
Pond 9 UP R-001B (14B0524-04) Water	Sampled: 02	2/06/14 12:20	Received: 02/06/14 21:30							
Salinity	ND	2.0	2.0	g/kg	1	AB41940	02/19/14 10:31	02/20/14 14:41	SM2520B	U
<b>Total Dissolved Solids</b>	1400	5.0	10	mg/l	"	AB41237	02/12/14 13:30	02/18/14 15:30	SM2540C	
Hardness, Total	885	1	5	"	"	AB41248	02/12/14 13:47	02/14/14 16:42	SM2340B	
Pond 9 DN R-002B (14B0524-05) Water	Sampled: 02	2/06/14 12:30	Receive	d: 02/06/1	14 21:30					
Salinity	ND	2.0	2.0	g/kg	1	AB41940	02/19/14 10:31	02/20/14 14:41	SM2520B	U
<b>Total Dissolved Solids</b>	860	5.0	10	mg/l	"	AB41237	02/12/14 13:30	02/18/14 15:30	SM2540C	
Hardness, Total	457	1	5	"	"	AB41248	02/12/14 13:47	02/14/14 16:46	SM2340B	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reported:

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

02/26/14 13:47

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

			Reporting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 17 DN R-002D (14B0524-06) Wat	er Sampled:	02/06/14 13:	05 Receiv	ed: 02/06	/14 21:30					
Salinity	ND	2.0	2.0	g/kg	1	AB41940	02/19/14 10:31	02/20/14 14:41	SM2520B	J
<b>Total Dissolved Solids</b>	1200	5.0	10	mg/l	"	AB41237	02/12/14 13:30	02/18/14 15:30	SM2540C	
Hardness, Total	657	1	5	"	"	AB41248	02/12/14 13:47	02/14/14 16:50	SM2340B	
Pond 20 DN/21 (14B0524-07) Water S	Sampled: 02/06	/14 08:50 R	eceived: 0	2/06/14 21	1:30					
Salinity	ND	2.0	2.0	g/kg	1	AB41940	02/19/14 10:31	02/20/14 14:41	SM2520B	U
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	"	AB41237	02/12/14 13:30	02/18/14 15:30	SM2540C	
Hardness, Total	796	1	5	"	"	AB41248	02/12/14 13:47	02/14/14 16:54	SM2340B	
Downstream (14B0524-08) Water San	mpled: 02/06/14	13:40 Rec	eived: 02/(	06/14 21:3	0					
Salinity	ND	2.0	2.0	g/kg	1	AB41940	02/19/14 10:31	02/20/14 14:41	SM2520B	U
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	"	AB41237	02/12/14 13:30	02/18/14 15:30	SM2540C	
Hardness, Total	537	1	5	"	"	AB41248	02/12/14 13:47	02/14/14 16:58	SM2340B	
Duplicate (14B0524-09) Water Sampl	led: 02/06/14 13	:50 Receive	ed: 02/06/1	4 21:30						
Oil & Grease (HEM)	1.4	0.80	1.4	mg/l	1	AB41129	02/11/14 08:00	02/14/14 13:00	EPA 1664A	
Salinity	ND	2.0	2.0	g/kg	"	AB41940	02/19/14 10:31	02/20/14 14:41	SM2520B	U
<b>Total Dissolved Solids</b>	1100	5.0	10	mg/l	"	AB41237	02/12/14 13:30	02/18/14 15:30	SM2540C	
<b>Total Suspended Solids</b>	15	0.30	0.50	"	"	AB41151	02/11/14 12:11	02/13/14 12:00	SM2540D	
Hardness, Total	510		5	,,	"	AB41248	02/12/14 13:47	02/14/14 17:19	SM2340B	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 02/26/14 13:47

# Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes	
Pond 9 EFF M-002 (14B0524-01) Water Sampled: 02/06/14 12:10 Received: 02/06/14 21:30											
Chloride	82	0.60	10	mg/l	20	AB41133	02/11/14 08:18	02/11/14 11:11	EPA 300.0		
Pond 17 EFF M-004 (14B0524-02) Water Sampled: 02/06/14 12:50 Received: 02/06/14 21:30											
Chloride	90	1.5	25	mg/l	50	AB41133	02/11/14 08:18	02/11/14 11:26	EPA 300.0		
Pond 20 EFF M-005 (14B0524-03) Water	Sampled: 0	2/06/14 08:30	Receive	ed: 02/06/	14 21:30						
Chloride	56	0.75	12	mg/l	25	AB41133	02/11/14 08:18	02/11/14 12:12	EPA 300.0		
Pond 9 UP R-001B (14B0524-04) Water Sampled: 02/06/14 12:20 Received: 02/06/14 21:30											
Chloride	120	0.75	12	mg/l	25	AB41133	02/11/14 08:18	02/11/14 15:10	EPA 300.0		
Pond 9 DN R-002B (14B0524-05) Water Sampled: 02/06/14 12:30 Received: 02/06/14 21:30											
Chloride	92	0.60	10	mg/l	20	AB41133	02/11/14 08:18	02/11/14 15:25	EPA 300.0		
Pond 17 DN R-002D (14B0524-06) Water Sampled: 02/06/14 13:05 Received: 02/06/14 21:30											
Chloride	91	0.75	12	mg/l	25	AB41133	02/11/14 08:18	02/11/14 15:40	EPA 300.0		
Pond 20 DN/21 (14B0524-07) Water Sampled: 02/06/14 08:50 Received: 02/06/14 21:30											
Chloride	66	0.75	12	mg/l	25	AB41133	02/11/14 08:18	02/11/14 15:55	EPA 300.0		
Downstream (14B0524-08) Water Sampled: 02/06/14 13:40 Received: 02/06/14 21:30											
Chloride	100	0.75	12	mg/l	25	AB41133	02/11/14 08:18	02/11/14 16:10	EPA 300.0		
Duplicate (14B0524-09) Water Sampled: 02/06/14 13:50 Received: 02/06/14 21:30											
Chloride	98	0.75	12	mg/l	25	AB41133	02/11/14 08:18	02/11/14 16:25	EPA 300.0		



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reported: 02/26/14 13:47

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

### Metals by EPA 200 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AB41248 - Metals Digest											
Blank (AB41248-BLK1)					Prepared: (	02/12/14 A	nalyzed: 02	2/14/14			
Calcium	0.428	0.010	1.0	mg/l							J
Magnesium	ND	0.0080	1.0	"							U
LCS (AB41248-BS1)					Prepared: (	02/12/14 A	nalyzed: 02	2/14/14			
Calcium	5.89	0.010	1.0	mg/l	5.88		100	85-115			
Magnesium	7.23	0.0080	1.0	"	8.00		90.4	85-115			
Duplicate (AB41248-DUP1)		Source: 14B0746-02			Prepared: (	02/12/14 A	nalyzed: 02	2/14/14			
Calcium	60.0	0.010	1.0	mg/l		59.5			0.852	20	
Magnesium	22.6	0.0080	1.0	"		22.4			0.551	20	
Matrix Spike (AB41248-MS1)		Source: 1	14B0746-02		Prepared: (	02/12/14 A	nalyzed: 02	2/14/14			
Calcium	63.3	0.010	1.0	mg/l	5.88	59.5	65.3	70-130			QM-4X
Magnesium	29.6	0.0080	1.0	"	8.00	22.4	89.1	70-130			
Matrix Spike (AB41248-MS2)		Source: 1	14B0805-03	i	Prepared: (	02/12/14 A	nalyzed: 02	2/14/14			
Calcium	60.5	0.010	1.0	mg/l	5.88	53.3	121	70-130			
Magnesium	56.0	0.0080	1.0	"	8.00	47.4	107	70-130			
Matrix Spike Dup (AB41248-MSD1)		Source: 1	14B0746-02		Prepared: 02/12/14 Analyzed: 02/14/14						
Calcium	66.2	0.010	1.0	mg/l	5.88	59.5	114	70-130	4.42	20	
Magnesium	30.0	0.0080	1.0	"	8.00	22.4	94.8	70-130	1.54	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Reported: 02/26/14 13:47 Project Number: 063-7109-914

### Metals by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AB42028 - SM3500 Cr6 Water											
Blank (AB42028-BLK1)					Prepared &	Analyzed:	: 02/20/14				
Chromium, hexavalent	ND	0.0050	0.010	mg/l							Ţ
LCS (AB42028-BS1)					Prepared &	Analyzed:	02/20/14				
Chromium, hexavalent	0.103	0.0050	0.010	mg/l	0.100		103	80-120			
Duplicate (AB42028-DUP1)		Source:	14B0524-05		Prepared &	Analyzed:	02/20/14				
Chromium, hexavalent	ND	0.0050	0.010	mg/l		ND				20	Ţ
Matrix Spike (AB42028-MS1)		Source:	14B0524-05		Prepared &	: Analyzed:	02/20/14				
Chromium, hexavalent	0.101	0.0050	0.010	mg/l	0.100	ND	101	0-200			
Matrix Spike Dup (AB42028-MSD1)		Source:	Source: 14B0524-05			Analyzed:	02/20/14				
Chromium, hexavalent	0.102	0.0050	0.010	mg/l	0.100	ND	102	0-200	0.998	20	
Batch AB42467 - EPA 1631											
Blank (AB42467-BLK1)					Prepared: 02/24/14 Analyzed: 02/25/14						
Mercury	ND	0.200	0.500	ng/l	_						Ţ
Mercury	ND	0.200	0.500	"							J
LCS (AB42467-BS1)					Prepared: 0	)2/24/14 A	nalyzed: 02	/25/14			
Mercury	4.76	0.200	0.500	ng/l	5.00		95.2	77-123			
Matrix Spike (AB42467-MS1)		Source:	14B0524-02		Prepared: 0	)2/24/14 A	nalyzed: 02	/25/14			
Mercury	41.8	0.200	0.500	ng/l	25.0	17.1	98.8	71-125			
Matrix Spike (AB42467-MS2)		Source: 14B1198-03 Pr			Prepared: 02/24/14 Analyzed: 02/25/14						
Mercury	28.0	0.200	0.500	ng/l	25.0	1.86	104	71-125			



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 02/26/14 13:47

#### Metals by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AB42467 - EPA 1631											
Matrix Spike Dup (AB42467-MSD1)		Source: 14	4B0524-02		Prepared: 02/24/14 Analyzed: 02/25/14						
Mercury	41.6	0.200	0.500	ng/l	25.0	17.1	98.3	71-125	0.336	24	
Matrix Spike Dup (AB42467-MSD2)		Source: 14	4B1198-03		Prepared: 02/24/14 Analyzed: 02/25/14						
Mercury	27.5	0.200	0.500	ng/l	25.0	1.86	102	71-125	1.80	24	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 02/26/14 13:47

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB41129 - General Preparation											
Blank (AB41129-BLK1)					Prepared: (	)2/11/14 A	nalyzed: 02	/14/14			
Oil & Grease (HEM)	ND	0.80	1.4	mg/l	_						U
LCS (AB41129-BS1)					Prepared: (	)2/11/14 A	nalyzed: 02	/14/14			
Oil & Grease (HEM)	39.6	0.80	1.4	mg/l	40.0		99.0	78-114		18	
LCS Dup (AB41129-BSD1)					Prepared: (	)2/11/14 A	nalyzed: 02	/14/14			
Oil & Grease (HEM)	36.2	0.80	1.4	mg/l	40.0		90.5	78-114	8.97	18	
Batch AB41151 - General Preparation											
Blank (AB41151-BLK1)					Prepared: (	)2/11/14 A	nalyzed: 02	/13/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AB41151-DUP1)		Source: 1	4B0524-03		Prepared: (	)2/11/14 A	nalyzed: 02	/13/14			
Total Suspended Solids	492	0.30	0.50	mg/l		484			1.64	30	
Duplicate (AB41151-DUP2)		Source: 1	4B0528-01		Prepared: (	)2/11/14 A	nalyzed: 02	/13/14			
Total Suspended Solids	512	0.30	0.50	mg/l		520			1.55	30	
Batch AB41237 - General Preparation											
Blank (AB41237-BLK1)					Prepared: (	)2/12/14 Aı	nalyzed: 02	/18/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AB41237-DUP1)		Source: 1	4B0727-01		Prepared: (	)2/12/14 A	nalyzed: 02	/18/14			
Total Dissolved Solids	488	5.0	10	mg/l		536			9.38	30	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/26/14 13:47

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Allaryte	Result	WIDL	LIIIII	Ullits	Levei	Result	/0KEC	Lillits	KFD	LIIIII	INOICS
Batch AB41237 - General Prepara	tion										
Duplicate (AB41237-DUP2)		Source: 1	4B0732-05		Prepared: (	)2/12/14 A	nalyzed: 02	/18/14			
Total Dissolved Solids	892	5.0	10	mg/l		916			2.65	30	
Batch AB41248 - Metals Digest											
Blank (AB41248-BLK1)					Prepared: (	)2/12/14 A	nalyzed: 02	/14/14			
Hardness, Total	1	1	5	mg/l							
Duplicate (AB41248-DUP1)		Source: 14B0746-02		Prepared: (	)2/12/14 A	nalyzed: 02	/14/14				
Hardness, Total	243	1	5	mg/l		241			0.737	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 02/26/14 13:47

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

#### Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB41133 - General Preparation	1										
Blank (AB41133-BLK1)					Prepared &	: Analyzed:	02/11/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AB41133-BS1)					Prepared &	Analyzed:	02/11/14				
Chloride	10.9	0.030	0.50	mg/l	11.1		98.3	90-110			
Duplicate (AB41133-DUP1)		Source: 14B0699-01			Prepared &	Analyzed:	02/11/14				
Chloride	11.0	0.030	0.50	mg/l		10.9			0.512	20	
Matrix Spike (AB41133-MS1)		Source: 1	4B0699-01		Prepared: (	)2/11/14 A	nalyzed: 02				
Chloride	23.2	0.060	1.0	mg/l	11.1	10.9	111	80-120			
Matrix Spike (AB41133-MS2)		Source: 1	4B0691-01		Prepared: 02/11/14 Analyzed: 02/15/14						
Chloride	20.5	0.030	0.50	mg/l	11.1	9.00	103	80-120			
Matrix Spike Dup (AB41133-MSD1)		Source: 14B0699-01			Prepared: 02/11/14 Analyzed: 02/15/14						
Chloride	23.3	0.060	1.0	mg/l	11.1	10.9	112	80-120	0.448	20	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit

Reported: 02/26/14 13:47

Project Number: 063-7109-914

#### **Notes and Definitions**

Project Manager: Chow Yip

J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the QM-4X

spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD



March 11, 2014

Alpha Analytical Laboratories Inc. ATTN: Robbie Phillips 208 Mason St. Ukiah, CA 95482 robbie@alpha-labs.com

RE: Project AAL-DB1301 Client Project: 14B0524

Dear Mr. Phillips,

On February 11, 2014, Brooks Rand Labs (BRL) received nine (9) water samples. The samples were logged-in for the contracted analyses of total silver (Ag), arsenic (As), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), nickel (Ni), lead (Pb), antimony (Sb), selenium (Se), thallium (Tl), and zinc (Zn) according to the chain-of-custody (COC) forms. Samples for dissolved analyses were field filtered. The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

In instances where a matrix spike/matrix spike duplicate (MS/MSD) set was spiked at a level less than the native sample, the recoveries are not considered valid indicators of data quality. However, these results are reported as a demonstration of precision. When the spiking levels were  $\leq 25\%$  of the native sample concentrations, the recoveries were not reported (NR).

The sample 14B0524-10 Field Blank (1407015-10) was labeled as a field blank and had Cu, Pb, and Zn concentrations above the MRL. All associated samples had Cu and Zn concentrations greater than 10x the concentration of the field blank. The Pb results for the samples may demonstrate possible contamination through field sample collection techniques employed.

The results were blank-corrected as described in the calculations section of the relevant SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details. Aside from concentration qualifiers, all data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Lydia Greaves Project Manager lydia@brooksrand.com



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

### Report Information

#### **Laboratory Accreditation**

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <a href="http://www.brooksrand.com/default.asp?contentID=586">http://www.brooksrand.com/default.asp?contentID=586</a>. Results reported relate only to the samples listed in the report.

#### **Field Quality Control Samples**

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

#### **Common Abbreviations**

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
CRM	certified reference material	RPD	relative percent difference
D	dissolved fraction	RSD	relative standard deviation
DUP	duplicate	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction
IBL	instrument blank		

#### **Definition of Data Qualifiers**

(Effective 9/23/09)

- B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- **J** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- N Spike recovery was not within acceptance criteria. Result is estimated.
- R Rejected, unusable value. A full explanation is presented in the narrative.
- **U** Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.</u>



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Sample Information

Sample	Lab ID	<b>Report Matrix</b>	Type	Sampled	Received
14B0524-01 Pond 9 EFF M-002	1407015-01	Water	Sample	02/06/2014	02/11/2014
14B0524-02 Pond 17 EFF M-004	1407015-02	Water	Sample	02/06/2014	02/11/2014
14B0524-03 Pond 20 EFF M-005	1407015-03	Water	Sample	02/06/2014	02/11/2014
14B0524-05 Pond 9 DN R-002B	1407015-04	Water	Sample	02/06/2014	02/11/2014
14B0524-06 Pond 17 DN R-002D	1407015-05	Water	Sample	02/06/2014	02/11/2014
14B0524-07 Pond 20 DN/21	1407015-06	Water	Sample	02/06/2014	02/11/2014
14B0524-08 Downstream	1407015-07	Water	Sample	02/06/2014	02/11/2014
14B0524-09 Duplicate	1407015-08	Water	Field Duplicate	02/06/2014	02/11/2014
14B0524-10 Field Blank	1407015-09	DIW	Field Blank	02/06/2014	02/11/2014

# **Batch Summary**

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ag	Water	EPA 1638	02/13/2014	02/27/2014	B140238	1400161
As	Water	EPA 1638 DRC	02/13/2014	02/28/2014	B140239	1400167
Be	Water	EPA 1638	02/13/2014	02/27/2014	B140238	1400161
Cd	Water	EPA 1638	02/13/2014	02/27/2014	B140238	1400161
Cr	Water	EPA 1638 DRC	02/13/2014	03/06/2014	B140240	1400186
Cu	Water	EPA 1638	02/13/2014	02/27/2014	B140238	1400161
Ni	Water	EPA 1638 DRC	02/13/2014	03/06/2014	B140240	1400186
Pb	Water	EPA 1638	02/13/2014	02/27/2014	B140238	1400161
Sb	Water	EPA 1638	02/13/2014	02/27/2014	B140238	1400161
Se	Water	EPA 1638 DRC	02/13/2014	02/28/2014	B140239	1400167
TI	Water	EPA 1638	02/13/2014	02/27/2014	B140238	1400161
Zn	Water	EPA 1638	02/13/2014	02/27/2014	B140238	1400161



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Sample Results

14B0524-01   Pond 9   EFF M-002     1407015-01   Ag   Water   T   0.044   0.005   0.021   µg/L   B140238   1400161   1407015-01   As   Water   T   2.03   0.047   0.158   µg/L   B140239   1400167   1407015-01   Be   Water   T   0.070   B   0.053   0.158   µg/L   B140238   1400161   1407015-01   Cd   Water   T   0.312   0.007   0.021   µg/L   B140238   1400161   1407015-01   Cr   Water   T   20.2   0.158   0.474   µg/L   B140240   1400186   1407015-01   Cu   Water   T   11.5   0.042   0.126   µg/L   B140238   1400161   1407015-01   Ni   Water   T   25.5   0.526   2.11   µg/L   B140238   1400161   1407015-01   Ni   Water   T   1.08   0.006   0.026   µg/L   B140238   1400161   1407015-01   Sb   Water   T   0.708   0.011   0.042   µg/L   B140238   1400161   1407015-01   Se   Water   T   0.708   0.011   0.042   µg/L   B140238   1400161   1407015-01   Ti   Water   T   0.618   0.003   0.011   µg/L   B140238   1400161   1407015-01   Zn   Water   T   0.618   0.003   0.011   µg/L   B140238   1400161   1407015-02   Ag   Water   T   0.606   0.047   0.158   µg/L   B140238   1400161   1407015-02   Be   Water   T   0.053   U   0.053   0.158   µg/L   B140238   1400161   1407015-02   Cr   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Cr   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Cr   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Cr   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Ni   Water   T   0.566   0.526   2.11   µg/L   B140238   1400161   1407015-02   Ni   Water   T   0.56   0.526   2.11   µg/L   B140238   1400161   1407015-02   Ni   Water   T   0.56   0.526   2.11   µg/L   B140238   1400161   1407015-02   Ni   Water   T   0.77   0.042   0.126   µg/L   B140238   1400161   1407015-02   Ni   Water   T   0.76   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05   0.05
1407015-01   Ag   Water   T   0.044   0.005   0.021   µg/L   B140238   1400161   1407015-01   As   Water   T   2.03   0.047   0.158   µg/L   B140239   1400167   1407015-01   Be   Water   T   0.070   B   0.053   0.158   µg/L   B140238   1400161   1407015-01   Cd   Water   T   0.312   0.007   0.021   µg/L   B140238   1400161   1407015-01   Cr   Water   T   20.2   0.158   0.474   µg/L   B140238   1400161   1407015-01   Cu   Water   T   21.5   0.042   0.126   µg/L   B140240   1400186   1407015-01   Ni   Water   T   25.5   0.526   2.11   µg/L   B140240   1400186   1407015-01   Pb   Water   T   1.08   0.006   0.026   µg/L   B140238   1400161   1407015-01   Sb   Water   T   0.708   0.011   0.042   µg/L   B140238   1400161   1407015-01   Se   Water   T   0.618   0.003   0.011   µg/L   B140238   1400161   1407015-01   Ti   Water   T   0.618   0.003   0.011   µg/L   B140238   1400161   1407015-01   Zn   Water   T   0.618   0.003   0.011   µg/L   B140238   1400161   1407015-02   As   Water   T   0.606   0.047   0.158   µg/L   B140238   1400161   1407015-02   Be   Water   T   0.606   0.047   0.158   µg/L   B140238   1400161   1407015-02   Be   Water   T   0.053   U   0.053   0.158   µg/L   B140238   1400161   1407015-02   Cr   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Cr   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Cr   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Cr   Water   T   0.533   0.158   0.474   µg/L   B140238   1400161   1407015-02   Cr   Water   T   0.566   0.526   2.11   µg/L   B140238   1400161   1407015-02   Ni   Water   T   25.6   0.526   2.11   µg/L   B140238   1400161   1407015-02   Pb   Water   T   0.124   0.006   0.026   µg/L   B140238   1400161   1407015-02   Pb   Water   T   0.124   0.006   0.026   µg/L   B140238   1400161   1407015-02   Sb   Water   T   0.126   0.015   0.316   µg/L   B140238   1400161   1407015-02   Sb   Water   T   0.126   0.005   0.016   µg/L   B140238   1400161   1407015-02   Sb   Wa
1407015-01
1407015-01   Be   Water   T   0.070   B   0.053   0.158   µg/L   B140238   1400161   1407015-01   Cd   Water   T   0.312   0.007   0.021   µg/L   B140238   1400161   1407015-01   Cr   Water   T   20.2   0.158   0.474   µg/L   B140240   1400161   1407015-01   Cu   Water   T   11.5   0.042   0.126   µg/L   B140238   1400161   1407015-01   Ni   Water   T   25.5   0.526   2.11   µg/L   B140240   1400186   1407015-01   Pb   Water   T   1.08   0.006   0.026   µg/L   B140238   1400161   1407015-01   Sb   Water   T   0.708   0.011   0.042   µg/L   B140238   1400161   1407015-01   Se   Water   T   0.708   0.011   0.042   µg/L   B140238   1400161   1407015-01   Ti   Water   T   0.618   0.003   0.011   µg/L   B140238   1400161   1407015-01   Ti   Water   T   0.618   0.003   0.011   µg/L   B140238   1400161   1407015-02   Ag   Water   T   0.053   U   0.053   0.158   µg/L   B140238   1400161   1407015-02   As   Water   T   0.0606   0.047   0.158   µg/L   B140238   1400161   1407015-02   Cd   Water   T   0.053   U   0.053   0.158   µg/L   B140238   1400161   1407015-02   Cd   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Cd   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Cd   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Cd   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Cd   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Cd   Water   T   0.221   0.007   0.021   µg/L   B140238   1400161   1407015-02   Ni   Water   T   0.566   0.526   2.11   µg/L   B140238   1400161   1407015-02   Ni   Water   T   0.526   0.526   2.11   µg/L   B140238   1400161   1407015-02   Ni   Water   T   0.546   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.526   0.5
1407015-01         Cd         Water         T         0.312         0.007         0.021         μg/L         B140238         1400161           1407015-01         Cr         Water         T         20.2         0.158         0.474         μg/L         B140240         1400186           1407015-01         Cu         Water         T         11.5         0.042         0.126         μg/L         B140238         1400161           1407015-01         Ni         Water         T         25.5         0.526         2.11         μg/L         B140240         1400186           1407015-01         Pb         Water         T         1.08         0.006         0.026         μg/L         B140238         1400161           1407015-01         Sb         Water         T         0.708         0.001         0.042         μg/L         B140238         1400161           1407015-01         Se         Water         T         7.71         0.105         0.316         μg/L         B140238         1400161           1407015-02         Ag         Water         T         0.618         0.003         0.011         μg/L         B140238         1400161           1407015-02
1407015-01         Cr         Water         T         20.2         0.158         0.474         μg/L         B140240         1400186           1407015-01         Cu         Water         T         11.5         0.042         0.126         μg/L         B140238         1400161           1407015-01         Ni         Water         T         25.5         0.526         2.11         μg/L         B140240         1400161           1407015-01         Pb         Water         T         1.08         0.006         0.026         μg/L         B140238         1400161           1407015-01         Sb         Water         T         0.708         0.011         0.042         μg/L         B140238         1400161           1407015-01         Se         Water         T         7.71         0.105         0.316         μg/L         B140238         1400161           1407015-01         Tl         Water         T         0.618         0.003         0.011         μg/L         B140238         1400161           1407015-02         Ag         Water         T         0.012         B         0.005         0.021         μg/L         B140238         1400161           1407015-0
1407015-01         Cu         Water         T         11.5         0.042         0.126         μg/L         B140238         1400161           1407015-01         Ni         Water         T         25.5         0.526         2.11         μg/L         B140240         1400186           1407015-01         Pb         Water         T         1.08         0.006         0.026         μg/L         B140238         1400161           1407015-01         Sb         Water         T         0.708         0.011         0.042         μg/L         B140238         1400161           1407015-01         Se         Water         T         7.71         0.105         0.316         μg/L         B140238         1400167           1407015-01         Zn         Water         T         0.618         0.003         0.011         μg/L         B140238         1400161           1407015-01         Zn         Water         T         0.618         0.003         0.011         μg/L         B140238         1400161           1407015-02         Ag         Water         T         0.012         B         0.005         0.021         μg/L         B140238         1400161           1407015-
1407015-01         Ni         Water         T         25.5         0.526         2.11         µg/L         B140240         1400186           1407015-01         Pb         Water         T         1.08         0.006         0.026         µg/L         B140238         1400161           1407015-01         Sb         Water         T         0.708         0.011         0.042         µg/L         B140238         1400161           1407015-01         Se         Water         T         7.71         0.105         0.316         µg/L         B140239         1400167           1407015-01         Tl         Water         T         0.618         0.003         0.011         µg/L         B140238         1400161           1407015-01         Zn         Water         T         0.618         0.003         0.011         µg/L         B140238         1400161           1407015-02         Ag         Water         T         0.606         0.047         0.158         µg/L         B140238         1400161           1407015-02         Be         Water         T         0.053         0.158         µg/L         B140238         1400161           1407015-02         Cd         Wa
1407015-01 Pb Water T 1.08 0.006 0.026 μg/L B140238 1400161 1407015-01 Sb Water T 0.708 0.011 0.042 μg/L B140238 1400161 1407015-01 Se Water T 7.71 0.105 0.316 μg/L B140239 1400167 1407015-01 TI Water T 0.618 0.003 0.011 μg/L B140238 1400161 1407015-01 Zn Water T 33.2 0.06 0.21 μg/L B140238 1400161 1407015-02 Ag Water T 0.606 0.047 0.158 μg/L B140239 1400167 1407015-02 Be Water T 0.606 0.047 0.158 μg/L B140239 1400161 1407015-02 Cd Water T 0.221 0.007 0.021 μg/L B140238 1400161 1407015-02 Cr Water T 3.53 0.158 μg/L B140238 1400161 1407015-02 Cr Water T 3.53 0.158 0.474 μg/L B140238 1400161 1407015-02 Cu Water T 4.77 0.042 0.126 μg/L B140238 1400161 1407015-02 Cu Water T 2.5.6 0.526 2.11 μg/L B140238 1400161 1407015-02 Pb Water T 0.124 0.006 0.026 μg/L B140238 1400161 1407015-02 Pb Water T 0.124 0.006 0.026 μg/L B140238 1400161 1407015-02 Se Water T 1.91 0.011 0.042 μg/L B140238 1400161 1407015-02 Se Water T 2.7.6 0.105 0.316 μg/L B140239 1400167 1407015-02 Se Water T 0.318 0.003 0.011 μg/L B140239 1400167
1407015-01 Sb Water T 0.708 0.011 0.042 μg/L B140238 1400161 1407015-01 Se Water T 7.71 0.105 0.316 μg/L B140239 1400167 1407015-01 TI Water T 0.618 0.003 0.011 μg/L B140238 1400161 1407015-01 Zn Water T 33.2 0.06 0.21 μg/L B140238 1400161 1407015-02 Ag Water T 0.606 0.047 0.158 μg/L B140238 1400161 1407015-02 Be Water T 0.053 U 0.053 0.158 μg/L B140238 1400161 1407015-02 Cd Water T 0.221 0.007 0.021 μg/L B140238 1400161 1407015-02 Cr Water T 3.53 0.158 0.474 μg/L B140238 1400161 1407015-02 Cu Water T 3.53 0.158 0.474 μg/L B140238 1400161 1407015-02 Cu Water T 4.77 0.042 0.126 μg/L B140238 1400161 1407015-02 Ni Water T 25.6 0.526 2.11 μg/L B140238 1400161 1407015-02 Pb Water T 0.124 0.006 0.026 μg/L B140238 1400161 1407015-02 Sb Water T 1.91 0.011 0.042 μg/L B140238 1400161 1407015-02 Se Water T 27.6 0.105 0.316 μg/L B140239 1400167 1407015-02 TI Water T 0.318 0.003 0.011 μg/L B140238 1400161
1407015-01 Se Water T 7.71 0.105 0.316 μg/L B140239 1400167 1407015-01 Tl Water T 0.618 0.003 0.011 μg/L B140238 1400161 1407015-01 Zn Water T 33.2 0.06 0.21 μg/L B140238 1400161  1480524-02 Pond 17 EFF M-004  1497015-02 Ag Water T 0.606 0.047 0.158 μg/L B140238 1400161  1407015-02 Be Water T 0.053 U 0.053 0.158 μg/L B140238 1400161  1407015-02 Cd Water T 0.221 0.007 0.021 μg/L B140238 1400161  1407015-02 Cr Water T 3.53 0.158 0.474 μg/L B140238 1400161  1407015-02 Cu Water T 4.77 0.042 0.126 μg/L B140238 1400161  1407015-02 Ni Water T 25.6 0.526 2.11 μg/L B140238 1400161  1407015-02 Pb Water T 0.124 0.006 0.026 μg/L B140238 1400161  1407015-02 Sb Water T 1.91 0.011 0.042 μg/L B140238 1400161  1407015-02 Se Water T 27.6 0.105 0.316 μg/L B140239 1400167  1407015-02 Tl Water T 7.0318 0.003 0.011 μg/L B140238 1400161
1407015-01         Zn         Water         T         33.2         0.06         0.21         μg/L         B140238         1400161           14B0524-02 Pond 17 EFF M-004           1407015-02         Ag         Water         T         0.012         B         0.005         0.021         μg/L         B140238         1400161           1407015-02         As         Water         T         0.606         0.047         0.158         μg/L         B140238         1400167           1407015-02         Be         Water         T         0.053         U         0.053         0.158         μg/L         B140238         1400161           1407015-02         Cd         Water         T         0.221         0.007         0.021         μg/L         B140238         1400161           1407015-02         Cr         Water         T         3.53         0.158         0.474         μg/L         B140240         1400186           1407015-02         Cu         Water         T         4.77         0.042         0.126         μg/L         B140238         1400161           1407015-02         Ni         Water         T         25.6         0.526         2.11         μg/L<
1407015-01         Zn         Water         T         33.2         0.06         0.21         μg/L         B140238         1400161           14B0524-02 Pond 17 EFF M-004           1407015-02         Ag         Water         T         0.012         B         0.005         0.021         μg/L         B140238         1400161           1407015-02         As         Water         T         0.606         0.047         0.158         μg/L         B140238         1400167           1407015-02         Be         Water         T         0.053         U         0.053         0.158         μg/L         B140238         1400161           1407015-02         Cd         Water         T         0.221         0.007         0.021         μg/L         B140238         1400161           1407015-02         Cr         Water         T         3.53         0.158         0.474         μg/L         B140240         1400186           1407015-02         Cu         Water         T         4.77         0.042         0.126         μg/L         B140238         1400161           1407015-02         Ni         Water         T         25.6         0.526         2.11         μg/L
1407015-02         Ag         Water         T         0.012         B         0.005         0.021         μg/L         B140238         1400161           1407015-02         As         Water         T         0.606         0.047         0.158         μg/L         B140239         1400167           1407015-02         Be         Water         T         0.053         U         0.053         0.158         μg/L         B140238         1400161           1407015-02         Cd         Water         T         0.221         0.007         0.021         μg/L         B140238         1400161           1407015-02         Cr         Water         T         3.53         0.158         0.474         μg/L         B140240         1400186           1407015-02         Cu         Water         T         4.77         0.042         0.126         μg/L         B140238         1400161           1407015-02         Ni         Water         T         25.6         0.526         2.11         μg/L         B140240         1400186           1407015-02         Pb         Water         T         0.124         0.006         0.026         μg/L         B140238         1400161
1407015-02         Ag         Water         T         0.012         B         0.005         0.021         μg/L         B140238         1400161           1407015-02         As         Water         T         0.606         0.047         0.158         μg/L         B140239         1400167           1407015-02         Be         Water         T         0.053         U         0.053         0.158         μg/L         B140238         1400161           1407015-02         Cd         Water         T         0.221         0.007         0.021         μg/L         B140238         1400161           1407015-02         Cr         Water         T         3.53         0.158         0.474         μg/L         B140240         1400186           1407015-02         Cu         Water         T         4.77         0.042         0.126         μg/L         B140238         1400161           1407015-02         Ni         Water         T         25.6         0.526         2.11         μg/L         B140240         1400186           1407015-02         Pb         Water         T         0.124         0.006         0.026         μg/L         B140238         1400161
1407015-02         As         Water         T         0.606         0.047         0.158         μg/L         B140239         1400167           1407015-02         Be         Water         T         0.053         U         0.053         0.158         μg/L         B140238         1400161           1407015-02         Cd         Water         T         0.221         0.007         0.021         μg/L         B140238         1400161           1407015-02         Cr         Water         T         3.53         0.158         0.474         μg/L         B140240         1400186           1407015-02         Cu         Water         T         4.77         0.042         0.126         μg/L         B140238         1400161           1407015-02         Ni         Water         T         25.6         0.526         2.11         μg/L         B140240         1400186           1407015-02         Pb         Water         T         0.124         0.006         0.026         μg/L         B140238         1400161           1407015-02         Sb         Water         T         1.91         0.011         0.042         μg/L         B140238         1400161           1407015-
1407015-02       As       Water       T       0.606       0.047       0.158       μg/L       B140239       1400167         1407015-02       Be       Water       T       0.053       U       0.053       0.158       μg/L       B140238       1400161         1407015-02       Cd       Water       T       0.221       0.007       0.021       μg/L       B140238       1400161         1407015-02       Cr       Water       T       3.53       0.158       0.474       μg/L       B140240       1400186         1407015-02       Cu       Water       T       4.77       0.042       0.126       μg/L       B140238       1400161         1407015-02       Ni       Water       T       25.6       0.526       2.11       μg/L       B140238       1400161         1407015-02       Pb       Water       T       0.124       0.006       0.026       μg/L       B140238       1400161         1407015-02       Sb       Water       T       1.91       0.011       0.042       μg/L       B140238       1400161         1407015-02       Se       Water       T       27.6       0.105       0.316       μg/L <t< td=""></t<>
1407015-02         Be         Water         T         0.053         U         0.053         0.158         μg/L         B140238         1400161           1407015-02         Cd         Water         T         0.221         0.007         0.021         μg/L         B140238         1400161           1407015-02         Cr         Water         T         3.53         0.158         0.474         μg/L         B140240         1400186           1407015-02         Cu         Water         T         4.77         0.042         0.126         μg/L         B140238         1400161           1407015-02         Ni         Water         T         25.6         0.526         2.11         μg/L         B140240         1400186           1407015-02         Pb         Water         T         0.124         0.006         0.026         μg/L         B140238         1400161           1407015-02         Sb         Water         T         1.91         0.011         0.042         μg/L         B140238         1400161           1407015-02         Se         Water         T         27.6         0.105         0.316         μg/L         B140238         1400167           1407015-0
1407015-02         Cd         Water         T         0.221         0.007         0.021         μg/L         B140238         1400161           1407015-02         Cr         Water         T         3.53         0.158         0.474         μg/L         B140240         1400186           1407015-02         Cu         Water         T         4.77         0.042         0.126         μg/L         B140238         1400161           1407015-02         Ni         Water         T         25.6         0.526         2.11         μg/L         B140240         1400186           1407015-02         Pb         Water         T         0.124         0.006         0.026         μg/L         B140238         1400161           1407015-02         Sb         Water         T         1.91         0.011         0.042         μg/L         B140238         1400161           1407015-02         Se         Water         T         27.6         0.105         0.316         μg/L         B140238         1400167           1407015-02         Tl         Water         T         0.318         0.003         0.011         μg/L         B140238         1400161
1407015-02 Cr Water T 3.53 0.158 0.474 μg/L B140240 1400186 1407015-02 Cu Water T 4.77 0.042 0.126 μg/L B140238 1400161 1407015-02 Ni Water T 25.6 0.526 2.11 μg/L B140240 1400186 1407015-02 Pb Water T 0.124 0.006 0.026 μg/L B140238 1400161 1407015-02 Sb Water T 1.91 0.011 0.042 μg/L B140238 1400161 1407015-02 Se Water T 27.6 0.105 0.316 μg/L B140239 1400167 1407015-02 Tl Water T 0.318 0.003 0.011 μg/L B140238 1400161
1407015-02         Cu         Water         T         4.77         0.042         0.126         μg/L         B140238         1400161           1407015-02         Ni         Water         T         25.6         0.526         2.11         μg/L         B140240         1400186           1407015-02         Pb         Water         T         0.124         0.006         0.026         μg/L         B140238         1400161           1407015-02         Sb         Water         T         1.91         0.011         0.042         μg/L         B140238         1400161           1407015-02         Se         Water         T         27.6         0.105         0.316         μg/L         B140239         1400167           1407015-02         Tl         Water         T         0.318         0.003         0.011         μg/L         B140238         1400161
1407015-02 Pb Water T 0.124 0.006 0.026 μg/L B140238 1400161 1407015-02 Sb Water T 1.91 0.011 0.042 μg/L B140238 1400161 1407015-02 Se Water T 27.6 0.105 0.316 μg/L B140239 1400167 1407015-02 Tl Water T 0.318 0.003 0.011 μg/L B140238 1400161
1407015-02 Sb Water T 1.91 0.011 0.042 μg/L B140238 1400161 1407015-02 Se Water T 27.6 0.105 0.316 μg/L B140239 1400167 1407015-02 Tl Water T 0.318 0.003 0.011 μg/L B140238 1400161
1407015-02 Se Water T 27.6 0.105 0.316 μg/L B140239 1400167 1407015-02 Tl Water T 0.318 0.003 0.011 μg/L B140238 1400161
1407015-02 TI Water T 0.318 0.003 0.011 μg/L B140238 1400161
· ·
1407015-02 Zn Water T 12.1 0.06 0.21 μg/L B140238 1400161
14B0524-03 Pond 20 EFF M-005
1407015-03 Ag Water T 0.133 0.005 0.021 μg/L B140238 1400161
1407015-03 As Water T 3.44 0.047 0.158 μg/L B140239 1400167
1407015-03 Be Water T 0.196 0.053 0.158 μg/L B140238 1400161
1407015-03 Cd Water T 0.901 0.007 0.021 μg/L B140238 1400161
1407015-03 Cr Water T 78.6 0.158 0.474 μg/L B140240 1400186
1407015-03 Cu Water T 23.3 0.042 0.126 μg/L B140238 1400161
1407015-03 Ni Water T 69.4 0.526 2.11 μg/L B140240 1400186
1407015-03 Pb Water T 4.75 0.006 0.026 μg/L B140238 1400161
1407015-03 Sb Water T 0.858 0.011 0.042 µg/L B140238 1400161
1407015-03 Se Water T 9.11 0.105 0.316 μg/L B140239 1400167
1407015-03 TI Water T 0.741 0.003 0.011 µg/L B140238 1400161
1407015-03 Zn Water T 90.6 0.06 0.21 μg/L B140238 1400161



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifie	r MDL	MRL	Unit	Batch	Sequence
14B0524-05 I	Pond 9 DN F	R-002B								
1407015-04	Ag	Water	Т	0.034		0.005	0.021	μg/L	B140238	1400161
1407015-04	As	Water	Т	1.69		0.047	0.158	μg/L	B140239	1400167
1407015-04	Be	Water	Τ	0.053	U	0.053	0.158	μg/L	B140238	1400161
1407015-04	Cd	Water	Τ	0.264		0.007	0.021	μg/L	B140238	1400161
1407015-04	Cr	Water	Τ	17.3		0.158	0.474	μg/L	B140240	1400186
1407015-04	Cu	Water	Τ	10.2		0.042	0.126	μg/L	B140238	1400161
1407015-04	Ni	Water	Т	21.8		0.526	2.11	μg/L	B140240	1400186
1407015-04	Pb	Water	Τ	0.901		0.006	0.026	μg/L	B140238	1400161
1407015-04	Sb	Water	Т	0.655		0.011	0.042	μg/L	B140238	1400161
1407015-04	Se	Water	Τ	7.31		0.105	0.316	μg/L	B140239	1400167
1407015-04	TI	Water	Т	0.599		0.003	0.011	μg/L	B140238	1400161
1407015-04	Zn	Water	Т	28.2		0.06	0.21	μg/L	B140238	1400161
14B0524-06 I	Pond 17 DN	R-002D								
1407015-05	Ag	Water	Т	0.016	В	0.005	0.021	μg/L	B140238	1400161
1407015-05	As	Water	Т	1.10		0.047	0.158	μg/L	B140239	1400167
1407015-05	Be	Water	Т	0.053	U	0.053	0.158	μg/L	B140238	1400161
1407015-05	Cd	Water	Т	0.178		0.007	0.021	μg/L	B140238	1400161
1407015-05	Cr	Water	Τ	10.6		0.158	0.474	μg/L	B140240	1400186
1407015-05	Cu	Water	Т	6.23		0.042	0.126	μg/L	B140238	1400161
1407015-05	Ni	Water	Τ	16.7		0.526	2.11	μg/L	B140240	1400186
1407015-05	Pb	Water	Τ	0.394		0.006	0.026	μg/L	B140238	1400161
1407015-05	Sb	Water	Т	0.873		0.011	0.042	μg/L	B140238	1400161
1407015-05	Se	Water	Τ	11.4		0.105	0.316	μg/L	B140239	1400167
1407015-05	TI	Water	Т	0.397		0.003	0.011	μg/L	B140238	1400161
1407015-05	Zn	Water	Т	15.7		0.06	0.21	μg/L	B140238	1400161
14B0524-07 I	Pond 20 DN	/21								
1407015-06	Ag	Water	T	0.087		0.005	0.021	μg/L	B140238	1400161
1407015-06	As	Water	Т	2.27		0.047	0.158	μg/L	B140239	1400167
1407015-06	Be	Water	Т	0.119	В	0.053	0.158	μg/L	B140238	1400161
1407015-06	Cd	Water	Т	0.599		0.007	0.021	μg/L	B140238	1400161
1407015-06	Cr	Water	Т	47.3		0.158	0.474	μg/L	B140240	1400186
1407015-06	Cu	Water	Т	15.3		0.042	0.126	μg/L	B140238	1400161
1407015-06	Ni	Water	Т	45.5		0.526	2.11	μg/L	B140240	1400186
1407015-06	Pb	Water	Т	3.11		0.006	0.026	μg/L	B140238	1400161
1407015-06	Sb	Water	Т	0.523		0.011	0.042	μg/L	B140238	1400161
1407015-06	Se	Water	Т	4.94		0.105	0.316	μg/L	B140239	1400167
1407015-06	TI	Water	Т	0.451		0.003	0.011	μg/L	B140238	1400161
1407015-06	Zn	Water	Т	56.7		0.06	0.21	μg/L	B140238	1400161



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifie	er MDL	MRL	Unit	Batch	Sequence
14B0524-08	Downstream	1								
1407015-07	Ag	Water	Т	0.009	В	0.005	0.021	μg/L	B140238	1400161
1407015-07	As	Water	Τ	1.01		0.047	0.158	μg/L	B140239	1400167
1407015-07	Be	Water	Т	0.053	U	0.053	0.158	μg/L	B140238	1400161
1407015-07	Cd	Water	Т	0.110		0.007	0.021	μg/L	B140238	1400161
1407015-07	Cr	Water	Т	5.78		0.158	0.474	μg/L	B140240	1400186
1407015-07	Cu	Water	Т	4.40		0.042	0.126	μg/L	B140238	1400161
1407015-07	Ni	Water	Т	13.5		0.526	2.11	μg/L	B140240	1400186
1407015-07	Pb	Water	Т	0.305		0.006	0.026	μg/L	B140238	1400161
1407015-07	Sb	Water	Т	0.512		0.011	0.042	μg/L	B140238	1400161
1407015-07	Se	Water	Т	6.49		0.105	0.316	μg/L	B140239	1400167
1407015-07	TI	Water	Τ	0.117		0.003	0.011	μg/L	B140238	1400161
1407015-07	Zn	Water	Т	9.19		0.06	0.21	μg/L	B140238	1400161
14B0524-09	Duplicate									
1407015-08	Ag	Water	Т	0.007	В	0.005	0.021	μg/L	B140238	1400161
1407015-08	As	Water	Т	1.06		0.047	0.158	μg/L	B140239	1400167
1407015-08	Be	Water	Т	0.053	U	0.053	0.158	μg/L	B140238	1400161
1407015-08	Cd	Water	Т	0.112		0.007	0.021	μg/L	B140238	1400161
1407015-08	Cr	Water	Т	5.81		0.158	0.474	μg/L	B140240	1400186
1407015-08	Cu	Water	Т	4.11		0.042	0.126	μg/L	B140238	1400161
1407015-08	Ni	Water	Т	13.1		0.526	2.11	μg/L	B140240	1400186
1407015-08	Pb	Water	Т	0.281		0.006	0.026	μg/L	B140238	1400161
1407015-08	Sb	Water	Т	0.519		0.011	0.042	μg/L	B140238	1400161
1407015-08	Se	Water	Т	6.42		0.105	0.316	μg/L	B140239	1400167
1407015-08	TI	Water	Т	0.111		0.003	0.011	μg/L	B140238	1400161
1407015-08	Zn	Water	Т	8.91		0.06	0.21	μg/L	B140238	1400161
14B0524-10	Field Blank									
1407015-09	Ag	DIW	Т	0.005	U	0.005	0.021	μg/L	B140238	1400161
1407015-09	As	DIW	Т	0.009	U	0.009	0.032	μg/L	B140239	1400167
1407015-09	Be	DIW	Т	0.053	U	0.053	0.158	μg/L	B140238	1400161
1407015-09	Cd	DIW	Т	0.007	U	0.007	0.021	μg/L	B140238	1400161
1407015-09	Cr	DIW	Т	0.029	В	0.016	0.047	μg/L	B140240	1400186
1407015-09	Cu	DIW	Т	0.276		0.042	0.126	μg/L	B140238	1400161
1407015-09	Ni	DIW	Т	0.053	U	0.053	0.211	μg/L	B140240	1400186
1407015-09	Pb	DIW	Т	0.067		0.006	0.026	μg/L	B140238	1400161
1407015-09	Sb	DIW	Т	0.011	U	0.011	0.042	μg/L	B140238	1400161
1407015-09	Se	DIW	Т	0.021	U	0.021	0.063	μg/L	B140239	1400167
1407015-09	TI	DIW	Т	0.003	U	0.003	0.011	μg/L	B140238	1400161
1407015-09	Zn	DIW	Т	0.26		0.06	0.21	μg/L	B140238	1400161



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140238 Lab Matrix: Water Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B140238-BS1	Laboratory Fortified	Blank (1351	•	0.400	- /1	050/ 75 405	
	Ag		0.4211	0.400	μg/L	95% 75-125	
	Be		3.158	3.214	μg/L	102% 75-125	
	Cd		0.2105	0.210	μg/L	100% 75-125	
	Cu		2.105	2.135	μg/L	101% 75-125	
	Pb		0.5259	0.555	μg/L	106% 75-125	
	Sb		0.4211	0.385	μg/L	91% 75-125	
	TI		0.2105	0.222	μg/L	106% 75-125	
	Zn		4.211	4.31	μg/L	102% 75-125	
B140238-SRM1	Certified Reference N	Natorial (13	23040 NIST	16436)			
D140230-01(W1	Ag	naterial (15	1.062	1.015	μg/L	96% 75-125	
	Be		13.98	13.41	μg/L	96% 75-125	
	Cd		6.568	6.332	μg/L	96% 75-125	
	Cu		22.76	22.81	μg/L	100% 75-125	
	Pb		19.63	19.29	μg/L	98% 75-125	
	Sb		58.30	52.75	μg/L	90% 75-125	
	TI		7.445	7.277	μg/L	98% 75-125	
	Zn		78.50	80.41	μg/L	102% 75-125	
	2		7 0.00	00.11	µg/∟	10270 70 120	
B140238-DUP1	Duplicate (1407014-0						
	Ag	ND		ND	μg/L		N/C 20
	Be	ND		ND	μg/L		N/C 20
	Cd	0.085		0.091	μg/L		7% 20
	Cu	3.053		2.981	μg/L		2% 20
	Pb	0.072		0.069	μg/L		4% 20
	Sb	0.602		0.597	μg/L		0.8% 20
	TI	0.154		0.153	μg/L		0.8% 20
	Zn	6.35		6.01	μg/L		5% 20



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140238 Lab Matrix: Water Method: EPA 1638

Sample B140238-MS1	Analyte Matrix Spike (1407014	Native -01)	Spike	Result	Units	REC & Limits	RPD & Limits
	Ag	ND	0.4211	0.381	μg/L	90% 75-125	
	Be	ND	0.2105	0.195	μg/L	93% 75-125	
	Cd	0.085	0.2105	0.288	μg/L	96% 75-125	
	Cu	3.053	2.105	4.967	μg/L	91% 75-125	
	Pb	0.072	0.5259	0.524	μg/L	86% 75-125	
	Sb	0.602	0.2105	0.809	μg/L	99% 75-125	
	TI	0.154	0.1053	0.242	μg/L	84% 75-125	
	Zn	6.35	10.53	15.85	μg/L	90% 75-125	
B140238-MSD1	Matrix Spike Duplicate	(1407014					
	Ag	ND	0.4211	0.382	μg/L	91% 75-125	0.4% 20
	Be	ND	0.2105	0.214	μg/L	101% 75-125	9% 20
	Cd	0.085	0.2105	0.295	μg/L	100% 75-125	2% 20
	Cu	3.053	2.105	5.005	μg/L	93% 75-125	0.8% 20
	Pb	0.072	0.5259	0.525	μg/L	86% 75-125	0.2% 20
	Sb	0.602	0.2105	0.800	μg/L	94% 75-125	1% 20
	TI	0.154	0.1053	0.245	μg/L	87% 75-125	1% 20
	Zn	6.35	10.53	16.12	μg/L	93% 75-125	2% 20
B140238-DUP2	<b>Duplicate (1407015-01</b>						
	Ag	0.044		0.042	μg/L		3% 20
	Be	0.070		0.070	μg/L		0.8% 20
	Cd	0.312		0.298	μg/L		4% 20
	Cu	11.47		11.47	μg/L		0.08% 20
	Pb	1.076		1.077	μg/L		0.06% 20
	Sb	0.708		0.722	μg/L		2% 20
	TI -	0.618		0.628	μg/L		2% 20
	Zn	33.23		33.27	μg/L		0.1% 20



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140238 Lab Matrix: Water Method: EPA 1638

Commis	Amalusta	Native	Cmiles	Decult	l luite	DEC 9 Limite	DDD 0 Limite
Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B140238-MS2	Matrix Spike (1407	,					
	Ag	0.044	0.4211	0.393	μg/L	83% 75-125	
	Be	0.070	0.2105	0.259	μg/L	90% 75-125	
	Cd	0.312	0.2105	0.498	μg/L	88% 75-125	
	Cu	11.47	2.105	13.33	μg/L	NR 75-125	
	Pb	1.076	0.5259	1.507	μg/L	82% 75-125	
	Sb	0.708	0.2105	0.898	μg/L	90% 75-125	
	TI	0.618	0.1053	0.697	μg/L	NR 75-125	
	Zn	33.23	10.53	42.56	μg/L	89% 75-125	
B140238-MSD2	Matrix Spike Dupli	cate (1407015	5-01)				
	Ag	0.044	0.4211	0.392	μg/L	83% 75-125	0.3% 20
	Be	0.070	0.2105	0.268	μg/L	94% 75-125	3% 20
	Cd	0.312	0.2105	0.497	μg/L	88% 75-125	0.2% 20
	Cu	11.47	2.105	13.30	μg/L	NR 75-125	0.2% 20
	Pb	1.076	0.5259	1.487	μg/L	78% 75-125	1% 20
	Sb	0.708	0.2105	0.913	μg/L	97% 75-125	2% 20
	TI	0.618	0.1053	0.702	μg/L	NR 75-125	0.7% 20
	Zn	33.23	10.53	42.68	μg/L	90% 75-125	0.3% 20



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140239 Lab Matrix: Water Method: EPA 1638 DRC

Sample B140239-BS1	Analyte Laboratory Fortified	Native	<b>Spike</b> 1061)	Result	Units	REC & Limits	RPD & Limits
	As	•	5.263	5.108	μg/L	97% 75-125	
	Se		6.316	6.030	μg/L	95% 75-125	
D440000 0D144	0 (17) 10 (		00040 140	<b>-</b> 4040 \			
B140239-SRM1	Certified Reference	Materiai (13			- /1	050/ 75 405	
	As		60.45	57.51	μg/L	95% 75-125	
	Se		11.97	12.60	μg/L	105% 75-125	
B140239-DUP1	Duplicate (1407014-	-01)					
	. As`	0.804		0.850	μg/L		6% 20
	Se	9.079		9.146	μg/L		0.7% 20
B140239-MS1	Matrix Spike (14070	14-01)					
D140233-14101	As	0.804	5.263	6.601	μg/L	110% 75-125	
	Se	9.079	10.53	21.10	μg/L	114% 75-125	
	00	0.070	10.00	21.10	μg/ <b>L</b>	11470 70 120	
B140239-MSD1	Matrix Spike Duplic				4		20/ 20
	As	0.804	5.263	6.383	μg/L	106% 75-125	3% 20
	Se	9.079	10.53	20.44	μg/L	108% 75-125	3% 20
B140239-DUP2	Duplicate (1407015-	-01)					
	As	2.027		1.866	μg/L		8% 20
	Se	7.711		7.408	μg/L		4% 20
B140239-MS2	Matrix Spike (14070	15-01)					
	As	2.027	5.263	7.304	μg/L	100% 75-125	
	Se	7.711	10.53	18.78	μg/L	105% 75-125	
B140239-MSD2	Matrix Spike Duplic	ata (1/107015	;_01\				
D 1 70233-1813DZ	As	2.027	5.263	7.515	μg/L	104% 75-125	3% 20
	Se	7.711	10.53	18.70	μg/L μg/L	104% 75-125	0.4% 20
	<del>Je</del>	1.111	10.55	10.70	µg/∟	104/0 13-123	0.4/0 20



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140240 Lab Matrix: Water Method: EPA 1638 DRC

Sample B140240-BS1	Analyte Laboratory Fortified B Cr Ni	Native ank (1351)	<b>Spike</b> <b>061)</b> 3.162 4.211	3.554 4.436	Units µg/L µg/L	REC & Limits 112% 75-125 105% 75-125	RPD & Limits
B140240-SRM1	Certified Reference Ma Cr Ni	iterial (132	<b>3040, NIST</b> 20.40 62.41	<b>1643e)</b> 19.32 61.06	μg/L μg/L	95% 75-125 98% 75-125	
B140240-SRM2	Certified Reference Ma Cr Ni	iterial (135	<b>2079, Fe, C</b> 50.00 20.00	6a check (\$ 46.57 20.29	SCV3 as S μg/L μg/L	<b>RM))</b> 93% 0-200 101% 0-200	
B140240-DUP1	Duplicate (1407014-01) Cr Ni	6.424 7.489		6.797 8.404	μg/L μg/L		6% 20 12% 20
B140240-MS1	Matrix Spike (1407014- Cr Ni	<b>01)</b> 6.424 7.489	10.54 52.63	18.01 63.97	μg/L μg/L	110% 75-125 107% 75-125	
B140240-MSD1	Matrix Spike Duplicate Cr Ni	<b>(1407014-</b> 6.424 7.489	<b>01)</b> 10.54 52.63	17.49 60.21	μg/L μg/L	105% 75-125 100% 75-125	3% 20 6% 20
B140240-DUP2	<b>Duplicate (1407015-01)</b> Cr Ni	20.16 25.48		18.94 22.99	μg/L μg/L		6% 20 10% 20
B140240-MS2	Matrix Spike (1407015- Cr Ni	<b>01)</b> 20.16 25.48	10.54 52.63	29.74 75.99	μg/L μg/L	91% 75-125 96% 75-125	



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140240 Lab Matrix: Water Method: EPA 1638 DRC

Sample B140240-MSD2	Analyte Matrix Spike Duplic	Native ate (1407015		Result	Units	REC & Limits	RPD & Limits
	Cr	20.16	10.54	29.73	μg/L	91% 75-125	0.03% 20
	Ni	25.48	52.63	78.90	µg/L	102% 75-125	4% 20



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

### Method Blanks & Reporting Limits

Batch: B140238 Matrix: Water Method: EPA 1638 Analyte: Ag 107

 Sample
 Result
 Units

 B140238-BLK1
 -0.003
 μg/L

 B140238-BLK2
 -0.003
 μg/L

 B140238-BLK3
 -0.003
 μg/L

 B140238-BLK4
 -0.003
 μg/L

 Average: -0.003
 Standard Deviation: 0.000
 MDL: 0.005

 Limit: 0.021
 Limit: 0.005
 MRL: 0.021

Analyte: Be

 Sample
 Result
 Units

 B140238-BLK1
 -0.012
 μg/L

 B140238-BLK2
 -0.014
 μg/L

 B140238-BLK3
 -0.012
 μg/L

 B140238-BLK4
 -0.013
 μg/L

Average: -0.013 Standard Deviation: 0.001 MDL: 0.053 Limit: 0.158 Limit: 0.053 MRL: 0.158

Analyte: Cd 114

 Sample
 Result
 Units

 B140238-BLK1
 -0.002
 μg/L

 B140238-BLK2
 -0.002
 μg/L

 B140238-BLK3
 -0.002
 μg/L

 B140238-BLK4
 -0.003
 μg/L

 Average: -0.002
 Standard Deviation: 0.001
 MDL: 0.007

 Limit: 0.021
 Limit: 0.007
 MRL: 0.021



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Method Blanks & Reporting Limits

Analyte: Cu 63

Sample	Result	Units
B140238-BLK1	-0.013	μg/L
B140238-BLK2	-0.010	μg/L
B140238-BLK3	-0.009	μg/L
B140238-BLK4	-0.009	ua/l

Average: -0.010 Standard Deviation: 0.002 MDL: 0.042 Limit: 0.126 MRL: 0.126

Analyte: Pb

Sample	Result	Units
B140238-BLK1	-0.002	μg/L
B140238-BLK2	-0.002	μg/L
B140238-BLK3	-0.002	μg/L
B140238-BLK4	-0.001	ua/l

Average: -0.002 Standard Deviation: 0.001 MDL: 0.006 Limit: 0.026 MRL: 0.026

Analyte: Sb

Sample	Result	Units
B140238-BLK1	-0.0006	μg/L
B140238-BLK2	-0.0008	μg/L
B140238-BLK3	-0.0008	μg/L
B140238-BLK4	-0.0008	µg/L

 Average: -0.001
 Standard Deviation: 0.000
 MDL: 0.011

 Limit: 0.042
 Limit: 0.011
 MRL: 0.042

Analyte: TI

Sample	Result	Units
B140238-BLK1	-0.001	μg/L
B140238-BLK2	-0.001	μg/L
B140238-BLK3	-0.002	μg/L
B140238-BLK4	-0.002	μg/L

 Average: -0.002
 Standard Deviation: 0.001
 MDL: 0.003

 Limit: 0.011
 Limit: 0.003
 MRL: 0.011



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Method Blanks & Reporting Limits

Analyte: Zn 66

Sample	Result	Units
B140238-BLK1	0.005	μg/L
B140238-BLK2	0.01	μg/L
B140238-BLK3	0.01	μg/L
B140238-BLK4	0.004	µg/L

 Average: 0.01
 Standard Deviation: 0.00
 MDL: 0.06

 Limit: 0.21
 Limit: 0.06
 MRL: 0.21



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Method Blanks & Reporting Limits

Batch: B140239 Matrix: Water

Method: EPA 1638 DRC

Analyte: As 91

Sample	Result	Units
B140239-BLK1	0.002	μg/L
B140239-BLK2	0.002	μg/L
B140239-BLK3	0.002	μg/L
B140239-BLK4	0.0006	μg/L

 Average: 0.002
 Standard Deviation: 0.001
 MDL: 0.009

 Limit: 0.032
 Limit: 0.009
 MRL: 0.032

Analyte: Se 78

Sample	Result	Units
B140239-BLK1	0.040	μg/L
B140239-BLK2	0.018	μg/L
B140239-BLK3	0.023	μg/L
B140239-BLK4	0.011	ua/L

 Average: 0.023
 Standard Deviation: 0.012
 MDL: 0.021

 Limit: 0.063
 Limit: 0.021
 MRL: 0.063



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Method Blanks & Reporting Limits

Batch: B140240 Matrix: Water

Method: EPA 1638 DRC

Analyte: Cr 52

Sample	Result	Units
B140240-BLK1	0.002	μg/L
B140240-BLK2	0.002	μg/L
B140240-BLK3	0.002	μg/L
B140240-BLK4	0.003	µg/L

 Average: 0.002
 Standard Deviation: 0.001
 MDL: 0.016

 Limit: 0.047
 Limit: 0.016
 MRL: 0.047

Analyte: Ni 62

Sample	Result	Units
B140240-BLK1	-0.002	μg/L
B140240-BLK2	-0.011	μg/L
B140240-BLK3	-0.007	μg/L
B140240-BLK4	-0.009	ua/l

 Average: -0.007
 Standard Deviation: 0.004
 MDL: 0.053

 Limit: 0.211
 Limit: 0.053
 MRL: 0.211



BRL Report 1407015
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Sample Containers

Sam	ID: 1407015-01 ple: 14B0524-01 Pond 9 E Container Bottle Glass	FF M-002 Size 500mL	Report Matrix: Water Sample Type: Sample Preservation 0.1% HNO3 (BRL)	<b>P-Lot</b> 1350086	Collected: 02/06/2014 Received: 02/11/2014 pH Ship. Cont. <2 Cooler
Sam	ID: 1407015-02 ple: 14B0524-02 Pond 17 Container Bottle Glass	EFF M-004 Size 500mL	Report Matrix: Water Sample Type: Sample Preservation 0.1% HNO3 (BRL)	<b>P-Lot</b> 1350086	Collected: 02/06/2014 Received: 02/11/2014 pH Ship. Cont. <2 Cooler
Sam	ID: 1407015-03 ple: 14B0524-03 Pond 20 Container Bottle Glass	EFF M-005 Size 500mL	Report Matrix: Water Sample Type: Sample Preservation 0.1% HNO3 (BRL)	P-Lot 1350086	Collected: 02/06/2014 Received: 02/11/2014 pH Ship. Cont. <2 Cooler
Sam	ID: 1407015-04 ple: 14B0524-05 Pond 9 D Container Bottle Glass	N R-002B Size 500mL	Report Matrix: Water Sample Type: Sample Preservation 0.1% HNO3 (BRL)	<b>P-Lot</b> 1350086	Collected: 02/06/2014 Received: 02/11/2014 pH Ship. Cont. <2 Cooler
Sam	ID: 1407015-05 ple: 14B0524-06 Pond 17 Container Bottle Glass	DN R-002D Size 500mL	Report Matrix: Water Sample Type: Sample Preservation 0.1% HNO3 (BRL)	<b>P-Lot</b> 1350086	Collected: 02/06/2014 Received: 02/11/2014 pH Ship. Cont. <2 Cooler
Sam	ID: 1407015-06 ple: 14B0524-07 Pond 20 Container Bottle Glass	DN/21 Size 500mL	Report Matrix: Water Sample Type: Sample Preservation 0.1% HNO3 (BRL)	<b>P-Lot</b> 1350086	Collected: 02/06/2014 Received: 02/11/2014 pH Ship. Cont. <2 Cooler



**BRL Report 1407015 Client PM:** Robbie Phillips Client PO: 130903RP-1

<2

Cooler

### Sample Containers

Lab ID: 1407015-07 Collected: 02/06/2014 Report Matrix: Water Sample: 14B0524-08 Downstream Sample Type: Sample **Received:** 02/11/2014 рΗ **Des Container Preservation** P-Lot Ship. Cont. Size Lot **Bottle Glass** 500mL 0.1% HNO3 (BRL) 1350086

not provided

Lab ID: 1407015-08 Collected: 02/06/2014 Report Matrix: Water Sample: 14B0524-09 Duplicate Sample Type: Field Duplicate Received: 02/11/2014

**Des Container** Size Lot **Preservation** P-Lot pН Ship. Cont. **Bottle Glass** 500mL not 0.1% HNO3 (BRL) 1350086 <2 Cooler

provided

**Lab ID:** 1407015-09 Collected: 02/06/2014 Report Matrix: DIW Sample: 14B0524-10 Field Blank Sample Type: Field Blank Received: 02/11/2014

**Des Container** Size **Preservation** P-Lot pН Ship. Cont. Lot **Bottle Glass** 500mL not 0.1% HNO3 (BRL) 1350086 <2 Cooler

provided

### **Shipping Containers**

Cooler

**Received:** February 11, 2014 9:20 **Description:** Cooler Custody seals present? No Custody seals intact? No Tracking No: 1Z8942500149988380 via UPS Damaged in transit? No

Coolant Type: Ice Returned to client? No COC present? Yes Temperature: 0.4 °C

# Alpha Analytical Laboratories, Inc. 14B0524

1407015 RL Report 1407015

### **SENDING LABORATORY:**

Alpha Analytical Laboratories, Inc.

208 Mason St. Ukiah, CA 95482

Phone: (707)468-0401 Fax: (707)468-5267

Project Manager:

Robbie C. Phillips

### RECEIVING LABORATORY:

Brooks Rand Labs, LLC 3958 6th Avenue NW Seattle, WA 98107 Phone :(206) 632-6206

Fax: (206) 632-6017

Terms: Net 30

nalysis	Due	Expires	Comments	
B0524-01 Pond 9 EF	F M-002 [Water] Sa	mpled 02/06/14 12:10 Pacif	ic	
1638 Ag Total ICPMS	02/24/14 12:00	08/05/14 12:10		
1638 As Total ICPMS	02/24/14 12:00	08/05/14 12:10		
1638 Be Total ICPMS	02/24/14 12:00	08/05/14 12:10		
1638 Cd Total ICPMS	02/24/14 12:00	08/05/14 12:10		
1638 Cr Total ICPMS	02/24/14 12:00	08/05/14 12:10		
1638 Ni Total ICPMS	02/24/14 12:00	08/05/14 12:10		•
1638 Pb Total ICPMS	02/24/14 12:00	08/05/14 12:10		
1638 Sb Total ICPMS	02/24/14 12:00	08/05/14 12:10		
1638 Se Total ICPMS	02/24/14 12:00	08/05/14 12:10		
1638 Tl Total ICPMS	02/24/14 12:00	08/05/14 12:10		
1638 Zn Total ICPMS	02/24/14 12:00	08/05/14 12:10		
1638 Cu Total ICPMS	02/24/14 12:00	08/05/14 12:10		
Containers Supplied:				
500ml Glass - Unpreser	ve:			
	TETE NAT OOA [XX/otor]	Samnien (12/110/14 14.30 1 a)		
1638 Ag Total ICPMS	02/24/14 12:00	08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS	02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS 1638 Ni Total ICPMS	02/24/14 12:00 02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50 08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS 1638 Ni Total ICPMS 1638 Zn Total ICPMS	02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS 1638 Ni Total ICPMS 1638 Zn Total ICPMS 1638 Cu Total ICPMS	02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS 1638 Ni Total ICPMS 1638 Zn Total ICPMS 1638 Cu Total ICPMS 1638 Cr Total ICPMS	02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS 1638 Ni Total ICPMS 1638 Zn Total ICPMS 1638 Cu Total ICPMS 1638 Cr Total ICPMS 1638 Cd Total ICPMS	02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50		
1638 Sb Total ICPMS 1638 Ni Total ICPMS 1638 Zn Total ICPMS 1638 Cu Total ICPMS 1638 Cr Total ICPMS 1638 Cd Total ICPMS 1638 Be Total ICPMS	02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS 1638 Ni Total ICPMS 1638 Zn Total ICPMS 1638 Cu Total ICPMS 1638 Cr Total ICPMS 1638 Cd Total ICPMS 1638 Be Total ICPMS 1638 Be Total ICPMS	02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS 1638 Ni Total ICPMS 1638 Zn Total ICPMS 1638 Cu Total ICPMS 1638 Cr Total ICPMS 1638 Cd Total ICPMS 1638 Be Total ICPMS 1638 Pb Total ICPMS 1638 Tl Total ICPMS	02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50 08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS 1638 Ni Total ICPMS 1638 Zn Total ICPMS 1638 Cu Total ICPMS 1638 Cr Total ICPMS 1638 Cd Total ICPMS 1638 Be Total ICPMS 1638 Pb Total ICPMS 1638 Tl Total ICPMS 1638 As Total ICPMS	02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS 1638 Ni Total ICPMS 1638 Zn Total ICPMS 1638 Cu Total ICPMS 1638 Cr Total ICPMS 1638 Cd Total ICPMS 1638 Be Total ICPMS 1638 Pb Total ICPMS 1638 Tl Total ICPMS 1638 As Total ICPMS	02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS 1638 Ni Total ICPMS 1638 Zn Total ICPMS 1638 Cu Total ICPMS 1638 Cr Total ICPMS 1638 Cd Total ICPMS 1638 Be Total ICPMS 1638 Pb Total ICPMS 1638 Tl Total ICPMS 1638 As Total ICPMS 1638 As Total ICPMS 1638 As Total ICPMS 1638 Se Total ICPMS	02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS 1638 Ni Total ICPMS 1638 Zn Total ICPMS 1638 Cu Total ICPMS 1638 Cr Total ICPMS 1638 Cd Total ICPMS 1638 Be Total ICPMS 1638 Pb Total ICPMS 1638 Tl Total ICPMS 1638 As Total ICPMS	02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50		
1638 Ag Total ICPMS 1638 Sb Total ICPMS 1638 Ni Total ICPMS 1638 Zn Total ICPMS 1638 Cu Total ICPMS 1638 Cr Total ICPMS 1638 Cd Total ICPMS 1638 Be Total ICPMS 1638 Be Total ICPMS 1638 Tl Total ICPMS 1638 Tl Total ICPMS 1638 As Total ICPMS 1638 As Total ICPMS 1638 Se Total ICPMS	02/24/14 12:00 02/24/14 12:00	08/05/14 12:50 08/05/14 12:50	- 1 a a a A	2/11/14 0970

Released By

Released By

Date

Received By

Date

20 of 24

### Alpha Analytical Laboratories, Inc.

### 14B0524

Analysis	Due	Expires	Comments	
14B0524-03 Pond 20 E	FF M-005 [Water]	Sampled 02/06/14 08:30 Pacifi	e	
1638 Zn Total ICPMS	02/24/14 12:00	08/05/14 08:30		
1638 Ag Total ICPMS	02/24/14 12:00	08/05/14 08:30		
1638 As Total ICPMS	02/24/14 12:00	08/05/14 08:30		
1638 Be Total ICPMS	02/24/14 12:00	08/05/14 08:30		
1638 Cd Total ICPMS	02/24/14 12:00	08/05/14 08:30		
1638 Cr Total ICPMS	02/24/14 12:00	08/05/14 08:30		
1638 Cu Total ICPMS	02/24/14 12:00	08/05/14 08:30		
1638 Ni Total ICPMS	02/24/14 12:00	08/05/14 08:30		
1638 Pb Total ICPMS	02/24/14 12:00	08/05/14 08:30		
1638 Sb Total ICPMS	02/24/14 12:00	08/05/14 08:30		
1638 Se Total ICPMS	02/24/14 12:00	08/05/14 08:30		
1638 Tl Total ICPMS	02/24/14 12:00	08/05/14 08:30		
Containers Supplied:				
500ml Glass - Unpreser	ve			
14B0524-05 Pond 9 D	N R-002B [Water] S	sampled 02/06/14 12:30 Pacifi	c	
1638 As Total ICPMS	02/24/14 12:00	08/05/14 12:30		
1638 Sb Total ICPMS	02/24/14 12:00	08/05/14 12:30		
1638 Pb Total ICPMS	02/24/14 12:00	08/05/14 12:30		
1638 Ni Total ICPMS	02/24/14 12:00	08/05/14 12:30		
1638 Cu Total ICPMS	02/24/14 12:00	08/05/14 12:30		
1638 Cr Total ICPMS	02/24/14 12:00	08/05/14 12:30		
1638 Cd Total ICPMS	02/24/14 12:00	08/05/14 12:30		
1638 Se Total ICPMS	02/24/14 12:00	08/05/14 12:30		
1638 Be Total ICPMS	02/24/14 12:00	08/05/14 12:30		
1638 Ag Total ICPMS	02/24/14 12:00	08/05/14 12:30		
1638 Zn Total ICPMS	02/24/14 12:00	08/05/14 12:30		
1638 Tl Total ICPMS	02/24/14 12:00	08/05/14 12:30		
Containers Supplied:				
Condiners supplied.				

Released By

Z-7-14 Date Cori Lunt

2/11/14 0920

Date

# Alpha Analytical Laboratories, Inc. 14B0524

Analysis	Due	Expires	Comments
14B0524-06 Pond 17 D	N R-002D [Water]	Sampled 02/06/14 13:05 Pacific	
1638 Cu Total ICPMS	02/24/14 12:00	08/05/14 13:05	
1638 Sb Total ICPMS	02/24/14 12:00	08/05/14 13:05	
1638 Se Total ICPMS	02/24/14 12:00	08/05/14 13:05	
1638 Tl Total ICPMS	02/24/14 12:00	08/05/14 13:05	
1638 Zn Total ICPMS	02/24/14 12:00	08/05/14 13:05	
1638 Ni Total ICPMS	02/24/14 12:00	08/05/14 13:05	
1638 Cd Total ICPMS	02/24/14 12:00	08/05/14 13:05	
1638 Be Total ICPMS	02/24/14 12:00	08/05/14 13:05	
1638 As Total ICPMS	02/24/14 12:00	08/05/14 13:05	
1638 Ag Total ICPMS	02/24/14 12:00	08/05/14 13:05	
1638 Cr Total ICPMS	02/24/14 12:00	08/05/14 13:05	
1638 Pb Total ICPMS	02/24/14 12:00	08/05/14 13:05	
Containers Supplied:			
500ml Glass - Unpreser	ve.		
		oled 02/06/14 08:50 Pacific	
1400324.07 1010.20 2			
1638 Se Total ICPMS	02/24/14 12:00	08/05/14 08:50	
1638 Ag Total ICPMS	02/24/14 12:00	08/05/14 08:50	
1638 As Total ICPMS	02/24/14 12:00	08/05/14 08:50	
1638 Be Total ICPMS	02/24/14 12:00	08/05/14 08:50	
1638 Cd Total ICPMS	02/24/14 12:00	08/05/14 08:50	
1638 Cr Total ICPMS	02/24/14 12:00	08/05/14 08:50	
1638 Cu Total ICPMS	02/24/14 12:00	08/05/14 08:50	
	02/24/14 12:00	08/05/14 08:50	
1638 Ni Total ICPMS		08/05/14 08:50	
1638 Ni Total ICPMS	02/24/14 12:00	00/03/14 00.30	
	02/24/14 12:00 02/24/14 12:00	08/05/14 08:50	
1638 Sb Total ICPMS			
1638 Sb Total ICPMS 1638 Tl Total ICPMS	02/24/14 12:00	08/05/14 08:50	
1638 Sb Total ICPMS 1638 Tl Total ICPMS 1638 Zn Total ICPMS	02/24/14 12:00 02/24/14 12:00	08/05/14 08:50 08/05/14 08:50	

Released By

2-7-14 Date Cou Myff Received By 2/11/14 0920

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#### 14B0524

Analysis	Due	Expires	Comments
14B0524-08 Downstrea	m [Water] Sampled	02/06/14 13:40 Pacific	
1638 Ni Total ICPMS	02/24/14 12:00	08/05/14 13:40	
1638 Sb Total ICPMS	02/24/14 12:00	08/05/14 13:40	
1638 Cr Total ICPMS	02/24/14 12:00	08/05/14 13:40	
1638 Zn Total ICPMS	02/24/14 12:00	08/05/14 13:40	
1638 Ag Total ICPMS	02/24/14 12:00	08/05/14 13:40	
1638 Se Total ICPMS	02/24/14 12:00	08/05/14 13:40	
1638 Pb Total ICPMS	02/24/14 12:00	08/05/14 13:40	
1638 Cu Total ICPMS	02/24/14 12:00	08/05/14 13:40	
1638 Cd Total ICPMS	02/24/14 12:00	08/05/14 13:40	
1638 Be Total ICPMS	02/24/14 12:00	08/05/14 13:40	
1638 As Total ICPMS	02/24/14 12:00	08/05/14 13:40	
1638 Tl Total ICPMS	02/24/14 12:00	08/05/14 13:40	
Containers Supplied:			
500ml Glass - Unpreser	ve.		
14B0524-09 Duplicate	[Water] Sampled 0	2/06/14 13:50 Pacific	
1638 Zn Total ICPMS	02/24/14 12:00	08/05/14 13:50	
1638 Cu Total ICPMS	02/24/14 12:00	08/05/14 13:50	
1638 Tl Total ICPMS	02/24/14 12:00	08/05/14 13:50	
1638 Se Total ICPMS	02/24/14 12:00	08/05/14 13:50	
1638 Sb Total ICPMS	02/24/14 12:00	08/05/14 13:50	
1638 Ni Total ICPMS	02/24/14 12:00	08/05/14 13:50	
1638 Cd Total ICPMS	02/24/14 12:00	08/05/14 13:50	
1638 Be Total ICPMS	02/24/14 12:00	08/05/14 13:50	
1638 As Total ICPMS	02/24/14 12:00	08/05/14 13:50	
1638 Ag Total ICPMS	02/24/14 12:00	08/05/14 13:50	
1638 Ag Total ICPMS	02/24/14 12:00	08/05/14 13:50	
1638 Pb Total ICPMS	02/24/14 12:00	08/05/14 13:50	
	V2/2 // 1. 12:00		
Containers Supplied:			
500ml Glass - Unprese	rve		

Released By

2-7-14

Date

Con Myst Received By 2/11/14 0920

Date

### Alpha Analytical Laboratories, Inc.

#### 14B0524

Analysis	Due	Expires	Comments
14B0524-10 Field Blanl	k [Water] Sampled	02/06/14 13:30 Pacific	
1638 Cd Total ICPMS	02/24/14 12:00	08/05/14 13:30	
1638 Tl Total ICPMS	02/24/14 12:00	08/05/14 13:30	
1638 Se Total ICPMS	02/24/14 12:00	08/05/14 13:30	
1638 Sb Total ICPMS	02/24/14 12:00	08/05/14 13:30	
1638 Zn Total ICPMS	02/24/14 12:00	08/05/14 13:30	
1638 Pb Total ICPMS	02/24/14 12:00	08/05/14 13:30	
1638 Ni Total ICPMS	02/24/14 12:00	08/05/14 13:30	•
1638 Cr Total ICPMS	02/24/14 12:00	08/05/14 13:30	
1638 Be Total ICPMS	02/24/14 12:00	08/05/14 13:30	
1638 As Total ICPMS	02/24/14 12:00	08/05/14 13:30	
1638 Ag Total ICPMS	02/24/14 12:00	08/05/14 13:30	
1638 Cu Total ICPMS	02/24/14 12:00	08/05/14 13:30	
Containers Supplied:			
500ml Glass - Unpreser	ve <sub>i</sub>		
Report to State	•		,
System Name:		Employed by:	
User ID:		Sampler:	
System Number: —			

West

Golder Associates

Golder Associates
CHAIN OF CUSTODY

(VBBS2Y Page of Quotation No. Po 450554361

PROJECT NO.:	SIT	SITE NAME:	Quarterly		2	ANALYSES	SES			Chosing Con	
416-6017-890		ehigh	Lehigh sto Pemit	-	مح	159/			/	ves No	-
SAMPLEK(S): Fan Sharkey David (UM/ tex		Band C. Nalt	latt	w ps	51 P	במיניי	97.42 P	-0	\	EDF required?	
CONTRACT LABORATORY: TURN-AROUND TIME:	rory:	Alpha Standard	Container	401	TOS. CTR P.	'au	Chief		/	Yes Wo	
	Collection		Type/Vol.	7/ 1/2	Trans 2/	My N	11 17 17 17 17 17		Cont	teny 42	Q.
Sample Lab	Date Time	Matrix	Depth Preserv.	: l	1	- 572	- H35a,		QtÀ	Remarks	
Pond 9 EFF M-00> 2.6.14 (210	DE 14 (310	9		*	××	×	×	-	9	The cro	
Pond 17 Eff M- 004	-+	<del>- </del>			x ;	X	×		٠ و	757 (18 Pag)	1
Pond 208FF M-005	- 1-1-			x	×	× ×	×		٠ ي	19 75 86 CA (T)	72
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	and a	Wirth			4					-	1

#### Sean Foley@Alpha Labs

From: "Robbie Phillips" <Robbie@sampletraps.com>
To: "Foley Sean" <sfoley@alpha-labs.com>

Sent: Monday, February 10, 2014 7:56 AM Attach: 14B0524 02 07 14 1100\_02.pdf

Subject: Fw: WO 14B0524 Lehigh analyses from 2/6 to cancel

From: DeVillier, Kimberly

Sent: Friday, February 07, 2014 3:50 PM

To: Robbie Phillips

Cc: Wegmann, George; Walter, David (Sunnyvale)

Subject: WO 14B0524 Lehigh analyses from 2/6 to cancel

Hi, Robbie. For WO 14B0524 from Lehigh sampled 2/6, please cancel the following analyses:

#### TSS for samples:

- "1480524-04 Pond 9 UP R-0018" V
- "14B0524-05 Pond 9 DN R-002B"
- "14B0524-06 Pond 17 DN R-002D" /
- "14B0524-07 Pond 20 DN/21"
- "14B0524-08 Downstream"

O&G for sample "14B0524-08 Downstream" J

Thank you.

Kimberly DeVillier | Geologist | Golder Associates Inc.

425 Lakeside Drive, Sunnyvale, California, USA 94085

T; +1 (408) 220-9223 | D: +1 (408) 220 9245 | F: +1 (408) 220-9224 | E: Kimberly DeVillier@golder.com | www.golder.com

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ELAP Certificate Numbers 1551 and 2728

28 February 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14B1000

Enclosed are the results of analyses for samples received by the laboratory on 02/12/14 20:50. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 02/28/14 10:07

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 EFF M-002	14B1000-01	Water	02/12/14 10:45	02/12/14 20:50
Pond 9 UP R-001B	14B1000-02	Water	02/12/14 10:55	02/12/14 20:50
Pond 9 DN R-002B	14B1000-03	Water	02/12/14 11:00	02/12/14 20:50
Pond 17 EFF M-004	14B1000-04	Water	02/12/14 11:20	02/12/14 20:50
Pond 17 DN R-002D	14B1000-05	Water	02/12/14 11:30	02/12/14 20:50



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Reported: 02/28/14 10:07

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

		Re	porting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 EFF M-002 (14B1000-01) Water	Sampled: 02	/12/14 10:45	Received	1: 02/12/1	4 20:50					
<b>Total Dissolved Solids</b>	730	5.0	10	mg/l	1	AB41923	02/19/14 09:30	02/21/14 14:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AB41858	02/13/14 14:00	02/13/14 17:00	SM2540F	U
Pond 9 UP R-001B (14B1000-02) Water	Sampled: 02	/12/14 10:55	Received	l: 02/12/1	4 20:50					
<b>Total Dissolved Solids</b>	1400	5.0	10	mg/l	1	AB41923	02/19/14 09:30	02/21/14 14:00	SM2540C	
Pond 9 DN R-002B (14B1000-03) Water	Sampled: 02	/12/14 11:00	Received	1: 02/12/1	4 20:50					
<b>Total Dissolved Solids</b>	770	5.0	10	mg/l	1	AB41923	02/19/14 09:30	02/21/14 14:00	SM2540C	
Pond 17 EFF M-004 (14B1000-04) Water	Sampled: 0	2/12/14 11:20	Receive	ed: 02/12	/14 20:50					
Total Dissolved Solids	1800	5.0	10	mg/l	1	AB41923	02/19/14 09:30	02/21/14 14:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AB41858	02/13/14 14:00	02/13/14 17:00	SM2540F	U
Pond 17 DN R-002D (14B1000-05) Water	Sampled: 0	2/12/14 11:30	Receive	ed: 02/12	/14 20:50					
Total Dissolved Solids	970	5.0	10	mg/l	1	AB41923	02/19/14 09:30	02/21/14 14:00	SM2540C	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 02/28/14 10:07

## Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
,	result		2	Onits	Dilution	Datell	Trepared	7 thany 2Cd		110105
Pond 9 EFF M-002 (14B1000-01) Water	Sampled: 02/	12/14 10:45	Received	l: 02/12/1	4 20:50					
Chloride	150	0.75	12	mg/l	25	AB41957	02/19/14 16:00	02/19/14 23:09	EPA 300.0	
Pond 9 UP R-001B (14B1000-02) Water	Sampled: 02/	12/14 10:55	Received	: 02/12/1	4 20:50					
Chloride	120	0.75	12	mg/l	25	AB41957	02/19/14 16:00	02/19/14 23:54	EPA 300.0	
Pond 9 DN R-002B (14B1000-03) Water	Sampled: 02/	12/14 11:00	Received	l: 02/12/1	4 20:50					
Chloride	150	0.75	12	mg/l	25	AB41957	02/19/14 16:00	02/20/14 00:09	EPA 300.0	
Pond 17 EFF M-004 (14B1000-04) Water	Sampled: 02	2/12/14 11:20	Receive	ed: 02/12/	/14 20:50					
Chloride	120	1.5	25	mg/l	50	AB41957	02/19/14 16:00	02/20/14 00:24	EPA 300.0	
Pond 17 DN R-002D (14B1000-05) Water	Sampled: 02	2/12/14 11:30	Receive	ed: 02/12/	/14 20:50					
Chloride	150	0.75	12	mg/l	25	AB41957	02/19/14 16:00	02/20/14 00:39	EPA 300.0	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/28/14 10:07

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source	AVP.EG	%REC	222	RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AB41923 - General Preparation	n										
Blank (AB41923-BLK1)					Prepared: (	02/19/14 A	nalyzed: 02/	/21/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AB41923-DUP1)		Source:	14B1000-01		Prepared: (	2/19/14 A	nalyzed: 02/	/21/14			
Total Dissolved Solids	796	5.0	10	mg/l		732			8.38	30	
Duplicate (AB41923-DUP2)		Source:	14B1003-03		Prepared: (	02/19/14 A	nalyzed: 02/	/21/14			
Total Dissolved Solids	294	5.0	10	mg/l		279			5.24	30	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 02/28/14 10:07

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

## Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD		
Analyte	Result	MDL.	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes	

Analyte	Result	MDL	Limit	Units	Levei	Resuit	%REC	Limits	RPD	Limit	Notes
Batch AB41957 - General Preparation	on										
Blank (AB41957-BLK1)					Prepared &	t Analyzed	: 02/19/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AB41957-BS1)					Prepared &	t Analyzed	: 02/19/14				
Chloride	11.3	0.030	0.50	mg/l	11.1		101	90-110			
Duplicate (AB41957-DUP1)		Source: 14	4B1314-04		Prepared: (	02/19/14 A	nalyzed: 02	2/20/14			
Chloride	6.50	0.030	0.50	mg/l		6.46			0.664	20	
Matrix Spike (AB41957-MS1)		Source: 14	4B1314-04		Prepared: (	02/19/14 A	nalyzed: 02	2/20/14			
Chloride	16.0	0.15	2.5	mg/l	11.1	6.46	85.9	80-120			
Matrix Spike Dup (AB41957-MSD1)		Source: 14	4B1314-04		Prepared: (	02/19/14 A	nalyzed: 02	2/20/14			
Chloride	15.9	0.15	2.5	mg/l	11.1	6.46	85.3	80-120	0.452	20	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 02/28/14 10:07

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Golder Associates

Golder Associates CHAIN OF CUSTODY

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Quotation No. Page of 4280554289

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ELAP Certificate Numbers 1551 and 2728

26 February 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14B1064

Enclosed are the results of analyses for samples received by the laboratory on 02/13/14 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Troject. Lenigh 5 & G Ten

Reported: 02/26/14 14:09

Project Number: 063-7109-914

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Composite	14B1064-01	Water	02/13/14 10:15	02/13/14 21:40
Pond 17 Composite	14B1064-02	Water	02/13/14 10:35	02/13/14 21:40



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Reported: 02/26/14 14:09

PO Box 660140 / Attention SSC AP - CEMENT Project Number: 063-7109-914

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 Composite (14B1064-01) Water	Sampled: 02/1	3/14 10:15	Received	: 02/13/14	1 21:40					
<b>Total Suspended Solids</b>	16	0.30	0.50	mg/l	1	AB41942	02/19/14 10:45	02/19/14 16:45	SM2540D	
Pond 17 Composite (14B1064-02) Water	Sampled: 02/	/13/14 10:35	Receive	d: 02/13/1	4 21:40					
<b>Total Suspended Solids</b>	3.0	0.30	0.50	mg/l	1	AB41942	02/19/14 10:45	02/19/14 16:45	SM2540D	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/26/14 14:09

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB41942 - General Preparatio	n										
Blank (AB41942-BLK1)					Prepared &	: Analyzed:	02/19/14				
Total Suspended Solids	0.400	0.30	0.50	mg/l							J
Duplicate (AB41942-DUP1)		Source: 1	4B1239-02		Prepared &	: Analyzed:	02/19/14				
Total Suspended Solids	380	0.30	0.50	mg/l		360			5.41	30	
Duplicate (AB41942-DUP2)		Source: 1	4B1242-01		Prepared &	: Analyzed:	02/19/14				
Total Suspended Solids	630	0.30	0.50	mg/l		680			7.63	30	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 02/26/14 14:09

#### **Notes and Definitions**

Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ). J

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Golder Associates

Golder Associates CHAIN OF CUSTODY

9N SNO EDD required? EDF required? Attn: Scorge Weymann, Greeffruge, Golder Associates Inc. Remarks Kes Yes 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224 Cont. SEND RESULTS TO: ANALYSES 1910 SINE 1.13-14 13.14 551 2 Container Info Type/Vol. Comparite Preserv. Filter Buril Citalt Matrix Depth SITE NAME: Alpha 3 Standare 3-13-14 1015 V 1035 1035 Time Collection Date CONTRACT LABORATORY: 1/2/1 David Walter TURN-AROUND TIME: 416-6011-690 Lab I.D. Pond 17 Compesite Pond 9 Congosite PROJECT NO .: SAMPLER(S): Sample I.D.

3 lab conv. vellow prosec



e-mail: clientservices@alpha-labs.com

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ELAP Certificate Numbers 1551 and 2728

06 March 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14B1425

Enclosed are the results of analyses for samples received by the laboratory on 02/20/14 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Dallas TX, 75266-0140

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 03/06/14 14:45

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Eff M-002	14B1425-01	Water	02/20/14 12:30	02/20/14 21:40
Pond 9 UP R-001B	14B1425-02	Water	02/20/14 12:40	02/20/14 21:40
Pond 9 DN R-002B	14B1425-03	Water	02/20/14 12:50	02/20/14 21:40
Pond 17 Eff M-004	14B1425-04	Water	02/20/14 13:25	02/20/14 21:40
Pond 17 DN R-002D	14B1425-05	Water	02/20/14 13:35	02/20/14 21:40



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 03/06/14 14:45

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 Eff M-002 (14B1425-01) Water	Sampled: 02/2	20/14 12:30	Received	: 02/20/14	21:40					
<b>Total Dissolved Solids</b>	1200	5.0	10	mg/l	1	AB42518	02/25/14 08:30	03/03/14 13:15	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AB42133	02/21/14 13:00	02/21/14 16:10	SM2540F	U
Pond 9 UP R-001B (14B1425-02) Water	Sampled: 02	/20/14 12:40	Received	1: 02/20/1	4 21:40					
<b>Total Dissolved Solids</b>	1800	5.0	10	mg/l	1	AB42518	02/25/14 08:30	03/03/14 13:15	SM2540C	
Pond 9 DN R-002B (14B1425-03) Water	Sampled: 02	/20/14 12:50	Receive	d: 02/20/1	4 21:40					
<b>Total Dissolved Solids</b>	1700	5.0	10	mg/l	1	AB42518	02/25/14 08:30	03/03/14 13:15	SM2540C	
Pond 17 Eff M-004 (14B1425-04) Water	Sampled: 02	/20/14 13:25	Received	1: 02/20/1	4 21:40					
<b>Total Dissolved Solids</b>	2300	5.0	10	mg/l	1	AB42518	02/25/14 08:30	03/03/14 13:15	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AB42133	02/21/14 13:00	02/21/14 16:10	SM2540F	U
Pond 17 DN R-002D (14B1425-05) Water	Sampled: 0	2/20/14 13:35	Receiv	ed: 02/20/	14 21:40					
<b>Total Dissolved Solids</b>	2000	5.0	10	mg/l	1	AB42518	02/25/14 08:30	03/03/14 13:15	SM2540C	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 03/06/14 14:45

## Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	R MDL	Leporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 Eff M-002 (14B1425-01) Water	Sampled: 02/20	/14 12:30	Received:	02/20/14	21:40					
Chloride	93	0.75	12	mg/l	25	AB42810	02/28/14 09:30	02/28/14 13:14	EPA 300.0	
Pond 9 UP R-001B (14B1425-02) Water	Sampled: 02/2	0/14 12:40	Received	: 02/20/1	4 21:40					
Chloride	130	1.5	25	mg/l	50	AB42810	02/28/14 09:30	02/28/14 13:30	EPA 300.0	
Pond 9 DN R-002B (14B1425-03) Water	Sampled: 02/2	0/14 12:50	Received	: 02/20/1	4 21:40					
Chloride	110	1.5	25	mg/l	50	AB42810	02/28/14 09:30	02/28/14 13:45	EPA 300.0	
Pond 17 Eff M-004 (14B1425-04) Water	Sampled: 02/2	0/14 13:25	Received	: 02/20/1	4 21:40					
Chloride	130	1.5	25	mg/l	50	AB42810	02/28/14 09:30	02/28/14 14:00	EPA 300.0	
Pond 17 DN R-002D (14B1425-05) Water	Sampled: 02/	20/14 13:3	5 Receive	ed: 02/20/	/14 21:40					
Chloride	140	1.5	25	mg/l	50	AB42810	02/28/14 09:30	02/28/14 14:41	EPA 300.0	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Reported: 03/06/14 14:45 Project Number: 063-7109-914

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB42518 - General Preparation											
Blank (AB42518-BLK1)					Prepared: 0	2/25/14 A	nalyzed: 03/	03/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AB42518-DUP1)		Source:	14B1425-01		Prepared: 0	2/25/14 A	nalyzed: 03/	03/14			
Total Dissolved Solids	1160	5.0	10	mg/l		1190			2.72	30	
Duplicate (AB42518-DUP2)		Source:	14B1495-08		Prepared: 0	2/25/14 A	nalyzed: 03/	03/14			
Total Dissolved Solids	676	5.0	10	mg/l		668			1.19	30	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 03/06/14 14:45

## Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB42810 - General Preparatio	n										
Blank (AB42810-BLK1)					Prepared &	: Analyzed:	02/28/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AB42810-BS1)					Prepared &	Analyzed:	02/28/14				
Chloride	9.57	0.030	0.50	mg/l	10.0		95.7	90-110			
Duplicate (AB42810-DUP1)		Source: 14	4B1609-01		Prepared &	Analyzed:	02/28/14				
Chloride	20.3	0.060	1.0	mg/l		20.3			0.178	20	
Matrix Spike (AB42810-MS1)		Source: 14	4B1609-01		Prepared &	Analyzed:	02/28/14				
Chloride	30.2	0.060	1.0	mg/l	11.1	20.3	89.3	80-120			
Matrix Spike (AB42810-MS2)		Source: 14	4B1947-01		Prepared &	Analyzed:	02/28/14				
Chloride	17.8	0.15	2.5	mg/l	11.1	7.73	90.8	80-120			
Matrix Spike Dup (AB42810-MSD1)		Source: 14	4B1609-01		Prepared &	: Analyzed:	02/28/14				
Chloride	30.2	0.060	1.0	mg/l	11.1	20.3	89.2	80-120	0.0515	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 03/06/14 14:45

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Golder Associates

CHAIN OF CUSTODY Golder Associates

14BHZS

Quotation No. 10 \* Kooss 4289 of Page

9 N 3 Include J-flags Char Kip EDD required? EDF required? Remarks Yes Yes Attn: Grocyc Wesmann 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224 Golder Associates Inc. Cont. SEND RESULTS TO: 14:50 ANALYSES 1900 3x Date/Tippe: 27014 720,14 Date/Time: tom tostot 121 Sam > × Container Info Type/Vol. Preserv. Weekly Lehigh StG pormit Filter David C. Halt Matrix Depth Received by; (signature) SITE NAME: Alpha Standard 3 1335 SeE1 1340 Time 2-30-14 1330 1350 Collection Date Custo CONTRACT LABORATORY: Pand 17Eff M-ony TURN-AROUND TIME: David Walter and 9 DN R-003B Pond 17DN R-003D Pond 9 4P R-001B Rond 9 Eff moos Lab LD 063-7109-914 PROJECT NO.: SAMPLER(S): Sample I.D.



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ELAP Certificate Numbers 1551 and 2728

06 March 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14B1531

Enclosed are the results of analyses for samples received by the laboratory on 02/24/14 21:35. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 03/06/14 15:15

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Composite	14B1531-01	Water	02/21/14 12:20	02/24/14 21:35
Pond 17 Composite	14B1531-02	Water	02/21/14 13:00	02/24/14 21:35



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 03/06/14 15:15

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Ro MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 Composite (14B1531-01) Water	Sampled: 02/2	1/14 12:20	Received	: 02/24/14	21:35					
<b>Total Suspended Solids</b>	4.5	0.30	0.50	mg/l	1	AB42624	02/26/14 08:00	03/01/14 10:00	SM2540D	
Pond 17 Composite (14B1531-02) Water	Sampled: 02/	21/14 13:00	Receive	d: 02/24/1	4 21:35					
<b>Total Suspended Solids</b>	20	0.30	0.50	mg/l	1	AB42624	02/26/14 08:00	03/01/14 10:00	SM2540D	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 03/06/14 15:15

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB42624 - General Preparation	l										
Blank (AB42624-BLK1)					Prepared: 0	)2/26/14 A	nalyzed: 03	/01/14			
Total Suspended Solids	0.400	0.30	0.50	mg/l							J
Duplicate (AB42624-DUP1)		Source: 1	4B1419-01		Prepared: 0	)2/26/14 A	nalyzed: 03	01/14			
Total Suspended Solids	173	0.30	0.50	mg/l		187			7.39	30	
Duplicate (AB42624-DUP2)		Source: 1	4B1433-01		Prepared: 0	)2/26/14 A	nalyzed: 03	01/14			
Total Suspended Solids	267	0.30	0.50	mg/l		307			14.0	30	



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Reported:

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914 03/06/14 15:15

#### **Notes and Definitions**

Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ). J

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Golder Associates

Golder Associates CHAIN OF CUSTODY

1251941

Quotation No. Po # 45to 554289

Include I flys 8 |-3 EDD required? EDF required? Attn: Grace Weg many Gregs Remarks Yes Yes 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224 Golder Associates Inc. SEND RESULTS TO: Cont. ANALYSES 25/ 735 Date/Time. さえん Date/Til 51 Container Info Type/Vol. Preserv. Composit Lehigh StG permit Filter (aunteut Received by: Jeignature David C. Vall Matrix Depth min Received by SITE NAME: 3 oec1 H1-K-C Time 17 Com posite 2-14-14 1300 Collection 1111 Date CONTRACT LABORATORY: TURN-AROUND TIME: and 9 Camposite David Walter Lab I.D. 416-6011-690 Relinquished by: (signature) PROJECT NO .: SAMPLER(S) Sample 1.D.



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ELAP Certificate Numbers 1551 and 2728

17 March 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140 RE: Lehigh Permanente

Work Order: 14B1886

Enclosed are the results of analyses for samples received by the laboratory on 02/27/14 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh Permanente

Reported: 03/17/14 08:07

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 637109914

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 30	14B1886-01	Water	02/27/14 09:25	02/27/14 21:00
Field Blank	14B1886-02	Water	02/27/14 09:30	02/27/14 21:00



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh Permanente

Reported: 03/17/14 08:07

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 637109914

### Metals by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 30 (14B1886-01) Water S	ampled: 02/27/14 09:	25 Receiv	ed: 02/27/14	21:00						
Chromium, hexavalent	ND	0.0050	0.010	mg/l	1	AC41066	03/10/14 14:00	03/10/14 16:28	SM3500-Cr B	U
Mercury	22.4	0.200	0.500	ng/l	"	AC40553	03/05/14 17:00	03/06/14 16:59	EPA 1631E	
Field Blank (14B1886-02) Water	Sampled: 02/27/14	09:30 Rec	ceived: 02/2'	7/14 21:00	1					
Mercury	ND	0.200	0.500	ng/l	1	AC40553	03/05/14 17:00	03/06/14 17:08	EPA 1631E	U



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh Permanente

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 637109914

Reported: 03/17/14 08:07

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 30 (14B1886-01) Water	Sampled: 02/27/14 09:25	Receive	ed: 02/27/14	21:00						
Chemical Oxygen Demand	49	9.0	50	mg/l	1	AC40829	03/08/14 08:18	03/12/14 09:30	SM5220D	J
Oil & Grease (HEM)	ND	0.80	5.0	"	"	AC41221	03/12/14 07:17	03/14/14 17:34	EPA 1664A	U
<b>Total Suspended Solids</b>	26	0.30	1.0	"	"	AC40448	03/04/14 17:32	03/06/14 11:40	SM2540D	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh Permanente Project Number: 637109914 Reported: 03/17/14 08:07

# Metals by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC40553 - EPA 1631											
Blank (AC40553-BLK1)					Prepared: (	03/05/14 A	nalyzed: 03	5/06/14			
Mercury	ND	0.200	0.500	ng/l							U
Mercury	ND	0.200	0.500	"							U
LCS (AC40553-BS1)					Prepared: (	03/05/14 A	nalyzed: 03	5/06/14			
Mercury	5.19	0.200	0.500	ng/l	5.00		104	77-123			
Matrix Spike (AC40553-MS1)		Source:	14B1636-01		Prepared: (	03/05/14 A	nalyzed: 03	5/06/14			
Mercury	24.1	0.200	0.500	ng/l	25.0	3.17	83.7	71-125			
Matrix Spike (AC40553-MS2)		Source:	14B1890-01		Prepared: (	03/05/14 A	nalyzed: 03	5/06/14			
Mercury	41.6	0.200	0.500	ng/l	25.0	19.7	87.3	71-125			
Matrix Spike Dup (AC40553-MSD1)		Source:	14B1636-01		Prepared: (	03/05/14 A	nalyzed: 03	5/06/14			
Mercury	26.0	0.200	0.500	ng/l	25.0	3.17	91.3	71-125	7.62	24	
Matrix Spike Dup (AC40553-MSD2)		Source:	14B1890-01		Prepared: (	03/05/14 A	nalyzed: 03	5/06/14			
Mercury	42.0	0.200	0.500	ng/l	25.0	19.7	88.9	71-125	0.934	24	
Batch AC41066 - SM3500 Cr6 Water											
Blank (AC41066-BLK1)					Prepared &	t Analyzed:	03/10/14				
Chromium, hexavalent	ND	0.0050	0.010	mg/l	1 repared 6	c Anaryzeu.	. 03/10/14				U
LCS (AC41066-BS1)				٥	Dranger d 6	t Analyzed:	02/10/14				
Chromium, hexavalent	0.106	0.0050	0.010	mg/l	0.100	c Anaryzeu.	106	80-120			
•	0.100							00-120			
Duplicate (AC41066-DUP1)			14C0328-01		Prepared &	k Analyzed:	03/10/14				
Chromium, hexavalent	ND	0.0050	0.010	mg/l		ND				20	U



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh Permanente

Project Number: 637109914

Reported: 03/17/14 08:07

## Metals by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC41066 - SM3500 Cr6 Water	r										
Matrix Spike (AC41066-MS1)		Source: 1	4C0328-01		Prepared &	Analyzed	03/10/14				
Chromium, hexavalent	0.0961	0.0050	0.010	mg/l	0.100	ND	96.1	0-200			
Matrix Spike (AC41066-MS2)		Source: 1	4B1731-01		Prepared &	Analyzed	03/10/14				
Chromium, hexavalent	0.0886	0.0050	0.010	mg/l	0.100	ND	88.6	0-200			
Matrix Spike Dup (AC41066-MSD1)		Source: 1	4C0328-01		Prepared &	Analyzed	03/10/14				
Chromium, hexavalent	0.0950	0.0050	0.010	mg/l	0.100	ND	95.0	0-200	1.12	20	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project Manager: Chow Yip

Project: Lehigh Permanente Project Number: 637109914 Reported: 03/17/14 08:07

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC40448 - General Preparation	n										
Blank (AC40448-BLK1)					Prepared: (	)3/04/14 A	Analyzed: 03	3/06/14			
Total Suspended Solids	ND	0.30	1.0	mg/l							
Duplicate (AC40448-DUP1)		Source:	14B1872-05		Prepared: (	)3/04/14 A	Analyzed: 03	3/06/14			
Total Suspended Solids	134	0.30	1.0	mg/l		134			0.00	30	
Duplicate (AC40448-DUP2)		Source:	14B1880-01		Prepared: (	03/04/14 A	Analyzed: 03	3/06/14			
Total Suspended Solids	100	0.30	1.0	mg/l	•	110	•		9.52	30	
Batch AC40829 - General Preparation	n										
Blank (AC40829-BLK1)					Prepared: (	03/08/14 A	Analyzed: 03	3/12/14			
Chemical Oxygen Demand	ND	9.0	50	mg/l							
LCS (AC40829-BS1)					Prepared: (	03/08/14 A	Analyzed: 03	3/12/14			
Chemical Oxygen Demand	400	9.0	50	mg/l	400		100	85-115			
LCS Dup (AC40829-BSD1)					Prepared: (	03/08/14 A	Analyzed: 03	3/12/14			
Chemical Oxygen Demand	407	9.0	50	mg/l	400		102	85-115	1.73	20	
Duplicate (AC40829-DUP1)		Source:	14B1952-01		Prepared: (	03/08/14 A	Analyzed: 03	3/12/14			
Chemical Oxygen Demand	64.0	9.0	50	mg/l	-	66.0	•		3.08	20	
Matrix Spike (AC40829-MS1)		Source:	14B1952-01		Prepared: (	03/08/14 A	Analyzed: 03	3/12/14			
Chemical Oxygen Demand	506	9.0	50	mg/l	400	66.0	110	85-115			
Matrix Spike Dup (AC40829-MSD1)		Source:	14B1952-01		Prepared: (	03/08/14 A	Analyzed: 03	3/12/14			
Chemical Oxygen Demand	502	9.0	50	mg/l	400	66.0	109	85-115	0.794	20	



e-mail: clientservices@alpha-labs.com

%REC

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reporting

Dallas TX, 75266-0140

Project: Lehigh Permanente

Spike

Source

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 637109914

Reported: 03/17/14 08:07

RPD

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC41221 - General Preparati	on										
Blank (AC41221-BLK1)					Prepared: (	03/12/14 A	nalyzed: 03	/14/14			
Oil & Grease (HEM)	ND	0.80	1.4	mg/l							U
LCS (AC41221-BS1)					Prepared: (	03/12/14 A	nalyzed: 03	/14/14			
Oil & Grease (HEM)	35.6	0.80	1.4	mg/l	40.0		89.0	78-114			
LCS Dup (AC41221-BSD1)					Prepared: (	)3/12/14 A	nalyzed: 03	/14/14			
Oil & Grease (HEM)	38.9	0.80	1.4	mg/l	40.0		97.2	78-114	8.86	18	



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Lehigh Southwest Cement Company Project Manager: Chow Yip

Dallas TX, 75266-0140 Project: Lehigh Permanente Reported:
PO Box 660140 / Attention SSC AP - CEMENT Project Number: 637109914 03/17/14 08:07

#### **Notes and Definitions**

J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



March 26, 2014

Alpha Analytical Laboratories Inc. ATTN: Robbie Phillips 208 Mason St. Ukiah, CA 95482 robbie@alpha-labs.com

RE: Project AAL-DB1301 Client Project: 14B1886

Dear Mr. Phillips,

On March 5, 2014, Brooks Rand Labs (BRL) received two (2) water samples. The samples were logged-in for the contracted analyses of total silver (Ag), arsenic (As), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), nickel (Ni), lead (Pb), antimony (Sb), selenium (Se), thallium (TI), and zinc (Zn) according to the chain-of-custody (COC) forms. Samples for dissolved analyses were field filtered. The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The results were blank-corrected as described in the calculations section of the relevant SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (**N/C**).

The sample 14B1886-02 Field Blank (1410012-02) was labeled as a field blank and had Cu, Pb, and Zn concentrations above the MRL. All associated samples had Cu and Zn concentrations greater than 10x the concentration of the field blank. The Pb results for the samples may demonstrate possible contamination through field sample collection techniques employed.

The Ni matrix spike/matrix spike duplicate (MS/MSD) set performed on sample 1410027-01 had low recoveries. The sample was qualified for the low recoveries; however no samples from this work order were qualified.

Aside from concentration qualifiers, all data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Lydfa Greaves
Project Manager
lydia@brooksrand.com

**Project ID:** AAL-DB1301 **PM:** Lydia Greaves



BRL Report 1410012 Client PM: Robbie Phillips Client PO: 130903RP-1

## **Report Information**

#### **Laboratory Accreditation**

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <a href="http://www.brooksrand.com/default.asp?contentID=586">http://www.brooksrand.com/default.asp?contentID=586</a>. Results reported relate only to the samples listed in the report.

#### **Field Quality Control Samples**

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

#### **Common Abbreviations**

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
CRM	certified reference material	RPD	relative percent difference
D	dissolved fraction	RSD	relative standard deviation
DUP	duplicate	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction
IBL	instrument blank		

#### **Definition of Data Qualifiers**

(Effective 9/23/09)

- B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- **J** Estimated value. A full explanation is presented in the narrative.
- **J-M** Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- N Spike recovery was not within acceptance criteria. Result is estimated.
- R Rejected, unusable value. A full explanation is presented in the narrative.
- U Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.</u>



BRL Report 1410012
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Sample Information

Lab ID **Sample Report Matrix** Type Sampled Received 1410012-01 Water Sample 02/27/2014 03/05/2014 14B1886-01 Pond 30 1410012-02 DIW Field Blank 02/27/2014 03/05/2014 14B1886-02 Field Blank

## **Batch Summary**

Analyte	Lab Matrix	Method	Prepared	<b>Analyzed</b>	Batch	Sequence
Ag	Water	EPA 1638	03/07/2014	03/20/2014	B140358	1400234
As	Water	EPA 1638 DRC	03/07/2014	03/10/2014	B140359	1400191
Be	Water	EPA 1638	03/07/2014	03/20/2014	B140358	1400234
Cd	Water	EPA 1638	03/07/2014	03/20/2014	B140358	1400234
Cr	Water	EPA 1638 DRC	03/07/2014	03/12/2014	B140360	1400204
Cu	Water	EPA 1638	03/07/2014	03/20/2014	B140358	1400234
Ni	Water	EPA 1638 DRC	03/07/2014	03/12/2014	B140360	1400204
Pb	Water	EPA 1638	03/07/2014	03/20/2014	B140358	1400234
Sb	Water	EPA 1638	03/07/2014	03/20/2014	B140358	1400234
Se	Water	EPA 1638 DRC	03/07/2014	03/10/2014	B140359	1400191
TI	Water	EPA 1638	03/07/2014	03/20/2014	B140358	1400234
Zn	Water	EPA 1638	03/07/2014	03/20/2014	B140358	1400234



BRL Report 1410012
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifie	er MDL	MRL	Unit	Batch	Sequence
14B1886-01 l	Pond 30									
1410012-01	Ag	Water	Т	0.011	В	0.005	0.021	μg/L	B140358	1400234
1410012-01	As	Water	Τ	1.93		0.009	0.032	μg/L	B140359	1400191
1410012-01	Be	Water	Т	0.053	U	0.053	0.158	μg/L	B140358	1400234
1410012-01	Cd	Water	Т	0.134		0.007	0.021	μg/L	B140358	1400234
1410012-01	Cr	Water	Τ	11.1		0.009	0.032	μg/L	B140360	1400204
1410012-01	Cu	Water	Τ	7.47		0.042	0.126	μg/L	B140358	1400234
1410012-01	Ni	Water	Т	15.0		0.053	0.211	μg/L	B140360	1400204
1410012-01	Pb	Water	Т	0.300		0.006	0.026	μg/L	B140358	1400234
1410012-01	Sb	Water	T	0.505		0.011	0.042	μg/L	B140358	1400234
1410012-01	Se	Water	Т	14.6		0.021	0.063	μg/L	B140359	1400191
1410012-01	TI	Water	Т	0.068		0.003	0.011	μg/L	B140358	1400234
1410012-01	Zn	Water	Т	18.9		0.06	0.21	μg/L	B140358	1400234
14B1886-02 I	Field Blank									
1410012-02	Ag	DIW	Т	0.005	U	0.005	0.021	μg/L	B140358	1400234
1410012-02	As	DIW	Τ	0.009	U	0.009	0.032	μg/L	B140359	1400191
1410012-02	Be	DIW	Τ	0.053	U	0.053	0.158	μg/L	B140358	1400234
1410012-02	Cd	DIW	Τ	0.007	U	0.007	0.021	μg/L	B140358	1400234
1410012-02	Cr	DIW	Τ	0.031	В	0.009	0.032	μg/L	B140360	1400204
1410012-02	Cu	DIW	Τ	0.318		0.042	0.126	μg/L	B140358	1400234
1410012-02	Ni	DIW	Τ	0.053	U	0.053	0.211	μg/L	B140360	1400204
1410012-02	Pb	DIW	Τ	0.068		0.006	0.026	μg/L	B140358	1400234
1410012-02	Sb	DIW	Т	0.011	U	0.011	0.042	μg/L	B140358	1400234
1410012-02	Se	DIW	Т	0.021	U	0.021	0.063	μg/L	B140359	1400191
1410012-02	TI	DIW	Т	0.003	U	0.003	0.011	μg/L	B140358	1400234
1410012-02	Zn	DIW	Т	0.38		0.06	0.21	μg/L	B140358	1400234



BRL Report 1410012
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140358 Lab Matrix: Water Method: EPA 1638

_							
Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B140358-BS1	Laboratory Fortified	Blank (1351		0.440	- /1	000/ 75 405	
	Ag		0.4211	0.416	μg/L	99% 75-125	
	Be		3.158	3.479	μg/L	110% 75-125	
	Cd		0.2105	0.229	μg/L	109% 75-125	
	Cu		2.105	2.227	μg/L	106% 75-125	
	Pb		0.5259	0.555	μg/L	106% 75-125	
	Sb		0.4211	0.414	μg/L	98% 75-125	
	TI		0.2105	0.228	μg/L	108% 75-125	
	Zn		4.211	4.41	μg/L	105% 75-125	
B140358-SRM1	Certified Reference N	Natorial (13	22040 NIGT	16/30)			
D140330-31(W1	Ag	iateriai (13	1.062	0.979	μg/L	92% 75-125	
	Re		13.98	15.51	μg/L	111% 75-125	
	Cd		6.568	6.596	μg/L	100% 75-125	
	Cu		22.76	23.27	μg/L μg/L	100% 75-125	
	Pb		19.63	19.67	μg/L μg/L	100% 75-125	
	Sb		58.30	56.79		97% 75-125	
	TI		7.445	7.463	μg/L	100% 75-125	
	Zn		7.443 78.50	84.16	μg/L	100% 75-125	
	ZII		76.50	04.10	μg/L	107% 75-125	
B140358-DUP1	<b>Duplicate (1410011-0</b>	1)					
	Ag`	0.011		0.012	μg/L		12% 20
	Be	ND		ND	μg/L		N/C 20
	Cd	0.094		0.089	μg/L		6% 20
	Cu	5.640		5.910	μg/L		5% 20
	Pb	0.644		0.646	μg/L		0.2% 20
	Sb	0.779		0.808	μg/L		4% 20
	TI	0.041		0.041	μg/L		0.8% 20
	Zn	9.01		9.60	μg/L		6% 20



BRL Report 1410012
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140358 Lab Matrix: Water Method: EPA 1638

Commis	Analysta	Nativo	Cmiles	Dogulf	l luite	DEC 9 Limite	DDD 0 Limite
Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B140358-MS1	Matrix Spike (1410	•					
	Ag	0.011	0.4211	0.365	μg/L	84% 75-125	
	Be	ND	0.2105	0.239	μg/L	113% 75-125	
	Cd	0.094	0.2105	0.299	μg/L	97% 75-125	
	Cu	5.640	2.105	7.782	μg/L	102% 75-125	
	Pb	0.644	0.5259	1.092	μg/L	85% 75-125	
	Sb	0.779	0.2105	0.990	μg/L	101% 75-125	
	TI	0.041	0.1053	0.137	μg/L	91% 75-125	
	Zn	9.01	10.53	18.85	μg/L	93% 75-125	
B140358-MSD1	Matrix Spike Duplic	cate (1410011	<b>-01</b> )				
	Ag	0.011	0.4211	0.363	μg/L	84% 75-125	0.6% 20
	Be	ND	0.2105	0.234	μg/L	111% 75-125	2% 20
	Cd	0.094	0.2105	0.301	μg/L	98% 75-125	0.7% 20
	Cu	5.640	2.105	7.651	μg/L	96% 75-125	2% 20
	Pb	0.644	0.5259	1.092	μg/L	85% 75-125	0.04% 20
	Sb	0.779	0.2105	0.998	μg/L	104% 75-125	0.7% 20
	TI	0.041	0.1053	0.139	μg/L	93% 75-125	1% 20
	Zn	9.01	10.53	19.32	μg/L	98% 75-125	2% 20



BRL Report 1410012
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140359 Lab Matrix: Water Method: EPA 1638 DRC

Sample B140359-BS1	Analyte Laboratory Fortified Bla As Se	Native ank (13510	<b>Spike</b> <b>061)</b> 5.263 6.316	5.230 5.280	<b>Units</b> μg/L μg/L	99% 75-125 84% 75-125	RPD & Limits
B140359-SRM1	Certified Reference Mat As Se	terial (132	<b>3040, NIST</b> 60.45 11.97	<b>1643e)</b> 61.04 11.99	μg/L μg/L	101% 75-125 100% 75-125	
B140359-DUP2	Duplicate (1410011-01) As Se	0.705 22.77		0.692 22.30	μg/L μg/L		2% 20 2% 20
B140359-MS2	Matrix Spike (1410011-0 As Se	01) 0.705 22.77	1.053 31.58	1.934 47.76	μg/L μg/L	117% 75-125 79% 75-125	
B140359-MSD2	Matrix Spike Duplicate As Se	(1410011-0 0.705 22.77	<b>01)</b> 1.053 31.58	1.821 47.85	μg/L μg/L	106% 75-125 79% 75-125	6% 20 0.2% 20



BRL Report 1410012
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140360 Lab Matrix: Water Method: EPA 1638 DRC

Sample B140360-BS1	Analyte Laboratory Fortified BI Cr Ni	Native ank (13510	<b>Spike 3.162</b> 4.211	3.126 4.275	Units μg/L μg/L	99% 75-125 102% 75-125	RPD & Limits
B140360-SRM1	Certified Reference Ma	terial (132:			4	/	
	Cr Ni		20.40 62.41	19.76 61.23	μg/L μg/L	97% 75-125 98% 75-125	
B140360-SRM2	Certified Reference Ma	terial (135)	2079, Fe, C	a check (S	CV3 as SF	RM))	
	Cr	, ,	50.00	48.90	μg/L	98% 0-200	
	Ni		20.00	20.44	μg/L	102% 0-200	
B140360-DUP1	Duplicate (1410027-01)						
	. Cr`	1.698		1.686	μg/L		0.7% 20
	Ni	10.15		10.31	μg/L		2% 20
B140360-MS1	Matrix Spike (1410027-	01)					
	Cr	1.698	10.54	10.42	μg/L	83% 75-125	
	Ni	10.15	10.53	17.70	μg/L	<b>72</b> % 75-125	
B140360-MSD1	Matrix Spike Duplicate						
	Cr	1.698	10.54	10.24	μg/L	81% 75-125	2% 20
	Ni	10.15	10.53	17.42	μg/L	69% 75-125	2% 20



BRL Report 1410012 Client PM: Robbie Phillips Client PO: 130903RP-1

### Method Blanks & Reporting Limits

Batch: B140358 Matrix: Water Method: EPA 1638 Analyte: Ag 107

 Sample
 Result
 Units

 B140358-BLK1
 -0.002
 μg/L

 B140358-BLK2
 -0.002
 μg/L

 B140358-BLK3
 -0.002
 μg/L

 B140358-BLK4
 -0.002
 μg/L

 Average: -0.002
 Standard Deviation: 0.000
 MDL: 0.005

 Limit: 0.021
 Limit: 0.005
 MRL: 0.021

Analyte: Be

 Sample
 Result
 Units

 B140358-BLK1
 -0.006
 μg/L

 B140358-BLK2
 -0.006
 μg/L

 B140358-BLK3
 -0.006
 μg/L

 B140358-BLK4
 -0.007
 μg/L

Average: -0.006 Standard Deviation: 0.000 MDL: 0.053 Limit: 0.158 Limit: 0.053 MRL: 0.158

Analyte: Cd 114

 Sample
 Result
 Units

 B140358-BLK1
 -0.002
 μg/L

 B140358-BLK2
 -0.002
 μg/L

 B140358-BLK3
 -0.002
 μg/L

 B140358-BLK4
 -0.002
 μg/L

 Average: -0.002
 Standard Deviation: 0.000
 MDL: 0.007

 Limit: 0.021
 Limit: 0.007
 MRL: 0.021



BRL Report 1410012
Client PM: Robbie Phillips
Client PO: 130903RP-1

## Method Blanks & Reporting Limits

Analyte: Cu 63

Sample	Result	Units
B140358-BLK1	-0.008	μg/L
B140358-BLK2	-0.008	μg/L
B140358-BLK3	-0.008	μg/L
B140358-BLK4	-0.009	ua/l

Average: -0.008 Standard Deviation: 0.000 MDL: 0.042 Limit: 0.126 Limit: 0.042 MRL: 0.126

Analyte: Pb

Sample	Result	Units
B140358-BLK1	-0.002	μg/L
B140358-BLK2	-0.002	μg/L
B140358-BLK3	-0.002	μg/L
B140358-BLK4	-0.002	ua/l

Average: -0.002 Standard Deviation: 0.000 MDL: 0.006 Limit: 0.026 MRL: 0.026

Analyte: Sb

Sample	Result	Units
B140358-BLK1	0.0006	μg/L
B140358-BLK2	0.0002	μg/L
B140358-BLK3	0.0002	μg/L
B140358-BLK4	0.001	µg/L

 Average: 0.001
 Standard Deviation: 0.000
 MDL: 0.011

 Limit: 0.042
 Limit: 0.011
 MRL: 0.042

Analyte: TI

Sample	Result	Units
B140358-BLK1	-0.002	μg/L
B140358-BLK2	-0.002	μg/L
B140358-BLK3	-0.002	μg/L
B140358-BLK4	-0.002	μg/L

 Average: -0.002
 Standard Deviation: 0.000
 MDL: 0.003

 Limit: 0.011
 Limit: 0.003
 MRL: 0.011



BRL Report 1410012 Client PM: Robbie Phillips Client PO: 130903RP-1

## Method Blanks & Reporting Limits

Analyte: Zn 66

Sample	Result	Units
B140358-BLK1	0.001	μg/L
B140358-BLK2	0.0004	μg/L
B140358-BLK3	0.002	μg/L
B140358-BLK4	0.004	ua/L

**Standard Deviation:** 0.00 Average: 0.00 **MDL**: 0.06 Limit: 0.21

**Limit:** 0.06 **MRL:** 0.21



BRL Report 1410012
Client PM: Robbie Phillips
Client PO: 130903RP-1

## Method Blanks & Reporting Limits

Batch: B140359 Matrix: Water

Method: EPA 1638 DRC

Analyte: As 91

Sample	Result	Units
B140359-BLK1	0.0009	μg/L
B140359-BLK2	0.0007	μg/L
B140359-BLK3	0.001	μg/L
B140359-BLK4	0.0009	μg/L

 Average: 0.001
 Standard Deviation: 0.000
 MDL: 0.009

 Limit: 0.032
 Limit: 0.009
 MRL: 0.032

Analyte: Se 78

Sample	Result	Units
B140359-BLK1	0.028	μg/L
B140359-BLK2	0.028	μg/L
B140359-BLK3	0.028	μg/L
B140359-BLK4	0.027	ua/L

 Average: 0.028
 Standard Deviation: 0.001
 MDL: 0.021

 Limit: 0.063
 Limit: 0.021
 MRL: 0.063



BRL Report 1410012
Client PM: Robbie Phillips
Client PO: 130903RP-1

## Method Blanks & Reporting Limits

Batch: B140360 Matrix: Water

Method: EPA 1638 DRC

Analyte: Cr 52

Sample	Result	Units
B140360-BLK1	-0.0009	μg/L
B140360-BLK2	-0.003	μg/L
B140360-BLK3	-0.002	μg/L
B140360-BLK4	-0.003	μg/L

 Average: -0.002
 Standard Deviation: 0.001
 MDL: 0.009

 Limit: 0.032
 Limit: 0.009
 MRL: 0.032

Analyte: Ni 62

Sample	Result	Units
B140360-BLK1	-0.012	μg/L
B140360-BLK2	-0.015	μg/L
B140360-BLK3	-0.015	μg/L
B140360-BLK4	-0.016	ua/l

 Average: -0.015
 Standard Deviation: 0.002
 MDL: 0.053

 Limit: 0.211
 Limit: 0.053
 MRL: 0.211



BRL Report 1410012 Client PM: Robbie Phillips Client PO: 130903RP-1

### Sample Containers

 Lab ID: 1410012-01
 Report Matrix: Water
 Collected: 02/27/2014

 Sample: 14B1886-01 Pond 30
 Sample Type: Sample
 Received: 03/05/2014

Des ContainerSizeLotPreservationP-LotpHShip. Cont.A Client-Provided500mLW1297FU0.1% HNO3 (BRL)1350086<2</td>Cooler

DP

Lab ID: 1410012-02Report Matrix: DIWCollected: 02/27/2014Sample: 14B1886-02 Field BlankSample Type: Field BlankReceived: 03/05/2014

Des ContainerSizeLotPreservationP-LotpHShip. Cont.A Client-Provided500mLW1297FU0.1% HNO3 (BRL)1350086<2</td>Cooler

DP

### **Shipping Containers**

Cooler

Received: March 5, 2014 9:00 Description: Cooler Custody seals present? Yes Tracking No: 1Z8942500147118377 via FedEx Damaged in transit? No Custody seals intact? Yes

Coolant Type: Ice Returned to client? No COC present? Yes Temperature: 1.5 °C

#### SUBCONTRACT ORDER

### Alpha Analytical Laboratories, Inc.

#### 14B1886

#### SENDING LABORATORY:

Alpha Analytical Laboratories, Inc.

208 Mason St. Ukiah, CA 95482 Phone: (707)468-0401

Fax: (707)468-5267

Project Manager: Robbie C. Phillips

#### RECEIVING LABORATORY:

Brooks Rand Labs, LLC 3958 6th Avenue NW Seattle, WA 98107 Phone :(206) 632-6206

Fax: (206) 632-6017

Terms: Net 30

Analysis	Due	Expires	Comments	
14B1886-01 Pond 30 [	Water   Sampled 02/	27/14 09:25 Pacific		
1638 Zn Total ICPMS	03/14/14 12:00	08/26/14 09:25		
1638 As Total ICPMS	03/14/14 12:00	08/26/14 09:25		
1638 Be Total ICPMS	03/14/14 12:00	08/26/14 09:25		
1638 Cd Total ICPMS	03/14/14 12:00	08/26/14 09:25		
1638 Cr Total ICPMS	03/14/14 12:00	08/26/14 09:25		
1638 Cu Total ICPMS	03/14/14 12:00	08/26/14 09:25		
1638 Ni Total ICPMS	03/14/14 12:00	08/26/14 09:25		
1638 Pb Total ICPMS	03/14/14 12:00	08/26/14 09:25		
1638 Sb Total ICPMS	03/14/14 12:00	08/26/14 09:25		
1638 Se Total ICPMS	03/14/14 12:00	08/26/14 09:25		
1638 Ag Total ICPMS	03/14/14 12:00	08/26/14 09:25		
1638 Tl Total ICPMS	03/14/14 12:00	08/26/14 09:25		
Containers Supplied:				
500ml Glass - Unpreser	VA.			
		02/27/14 09:30 Pacific		
1638 Zn Total ICPMS	03/14/14 12:00	08/26/14 09:30		
1638 As Total ICPMS	03/14/14 12:00	08/26/14 09:30		
1638 Be Total ICPMS	03/14/14 12:00	08/26/14 09:30		
1638 Cd Total ICPMS	03/14/14 12:00	08/26/14 09:30		
1638 Cr Total ICPMS	03/14/14 12:00	08/26/14 09:30		
1638 Cu Total ICPMS	03/14/14 12:00	08/26/14 09:30		
1638 Ni Total ICPMS	03/14/14 12:00	08/26/14 09:30		
1638 Pb Total ICPMS	03/14/14 12:00	08/26/14 09:30		
1638 Sb Total ICPMS	03/14/14 12:00	08/26/14 09:30		
1638 Se Total ICPMS	03/14/14 12:00	08/26/14 09:30		
100000000000000000000000000000000000000	03/14/14 12:00	08/26/14 09:30		
1638 TI Total ICPMS	03/14/14 12:00	08/26/14 09:30		
1638 TI Total ICPMS 1638 Ag Total ICPMS Containers Supplied:	03/14/14 12:00	08/26/14 09:30		

### 14B1886

Report to State	/	
System Name:	Employed by:	
User ID:	Sampler:	
System Number:		/

+DC +J-F/495

Released By

Date

Received By

Date

Released By

Date

16 erifed By

Date

	Golder	Golder Associates Inc. 148/886 Page	Page_of
A Ssociates	СНА	IN OF CUSTODY	Quotation No. Direct Bill to Lehigh, SW Sampling
PROJECT AND PHASE NO.:	SITE NAME:	ANALYSES	EDD Required?
637109914	Lehigh Permanente - SW		Ves/No
SAMPLER SIGNATURE(S):		M5520) 2631) ele	or
CONTRACT LABORATORY: Alpha TURN-AROUND TIME: Standa	Alpha Container Standard Info	FS (160.2)  Oil & Grease (500) (410,4/5  GOD (410,4/5  G38)	Por Required /
ile Lab	Typ Vol	amber voa gil 1	
ID Date	17	N H2SO4H3PO4 N NH4SO4	Remarks
Field 8 lank 2.37.14	0930 W	1 2 + 2   2   1	
Relinquished by (signature): Relinquished by (signature): Relinquished by (signature): M. W.	Received by (signature): Received by (signature): Received by (signature): Received by (signature):	Date/Time: SEND RESULTS TO: Lehigh: Greg Knapp, ChowYip Attention: George Wegmann Date/Time: Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Date/Time: Phone (408) 220-9223  LAPA HENDER (408) 220-9224	F. TO: Pp. ChowYip ge Wegmann s Inc. we we we 1085 223

C:\Users\DWalter\AppData\Loca\Wirdows\Temporary Internet Files\Content.Outlook\WCO3QPQ2\pond30 COC Form (3).xlsx



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

17 March 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14B1890

Enclosed are the results of analyses for samples received by the laboratory on 02/27/14 21:00. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 03/17/14 08:13

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 13B EFF M-003	14B1890-01	Water	02/27/14 12:20	02/27/14 21:00
Pond 13B DN R-002C	14B1890-02	Water	02/27/14 12:40	02/27/14 21:00



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 03/17/14 08:13

### Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 13B DN R-002C (14B1890-02) Water	Sampled	: 02/27/14 1	2:40 Recei	ived: 02/2	7/14 21:00					
Calcium	140	0.010	1.0	mg/l	1	AC40544	03/05/14 12:00	03/06/14 17:48	EPA 200.7	
Magnesium	49	0.0080	1.0	"	"	"	"	"	"	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 03/17/14 08:13

### Metals by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 13B EFF M-003 (14B1890-01) Water	Sampled	l: 02/27/14 1	2:20 Recei	ived: 02/2	27/14 21:00					
Mercury	19.7	0.200	0.500	ng/l	1	AC40553	03/05/14 17:00	03/06/14 17:16	EPA 1631E	
Pond 13B DN R-002C (14B1890-02) Water Sampled: 02/27/14 12:40 Received: 02/27/14 21:00										
Chromium, hexavalent	ND 23.0	0.0050	0.010	mg/l	1	AC41066	03/10/14 14:00	03/10/14 16:28	SM3500-Cr B	U
Mercury	23.0	0.200	0.500	ng/l	"	AC40553	03/05/14 17:00	03/06/14 17:40	EPA 1631E	



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Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Dallas TX, 75266-0140

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 03/17/14 08:13

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 13B EFF M-003 (14B1890-01) Water	Sampled	: 02/27/14 12	2:20 Recei	ived: 02/2	27/14 21:00					
Oil & Grease (HEM)	ND	0.80	1.4	mg/l	1	AC41221	03/12/14 07:17	03/14/14 17:34	EPA 1664A	U
<b>Total Dissolved Solids</b>	1200	5.0	10	"	"	AB42815	02/28/14 10:00	03/04/14 08:45	SM2540C	
<b>Total Suspended Solids</b>	28	0.30	0.50	"	"	AC40450	03/05/14 08:00	03/06/14 13:18	SM2540D	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AC40328	02/28/14 13:00	02/28/14 17:00	SM2540F	U
Pond 13B DN R-002C (14B1890-02) Water	Sampled	l: 02/27/14 12	2:40 Rece	ived: 02/2	27/14 21:00					
Salinity	ND	2.0	2.0	g/kg	1	AC40727	03/07/14 11:32	03/07/14 13:03	SM2520B	U
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	"	AB42815	02/28/14 10:00	03/04/14 08:45	SM2540C	
Hardness, Total	548	1	5	"	"	AC40544	03/05/14 12:00	03/06/14 17:48	SM2340B	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 03/17/14 08:13

# Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	Rep MDL	orting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 13B EFF M-003 (14B1890-01) Water	Sampled:	02/27/14 12:20	) Recei	ved: 02/2	7/14 21:00					
Chloride	36	0.75	12	mg/l	25	AC40339	03/03/14 11:34	03/03/14 21:21	EPA 300.0	
Pond 13B DN R-002C (14B1890-02) Water	Sampled:	02/27/14 12:40	) Recei	ived: 02/2	7/14 21:00					
Chloride	45	0.60	10	mg/l	20	AC40339	03/03/14 08:34	03/04/14 10:48	EPA 300.0	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Reported: 03/17/14 08:13 Project Number: 063-7109-914

### Metals by EPA 200 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC40544 - Metals Digest											
Blank (AC40544-BLK1)					Prepared: (	03/05/14 A	nalyzed: 03	3/06/14			
Calcium	ND	0.010	1.0	mg/l							Ţ
Magnesium	ND	0.0080	1.0	"							U
LCS (AC40544-BS1)					Prepared: (	03/05/14 A	nalyzed: 03	3/06/14			
Calcium	5.35	0.010	1.0	mg/l	5.80		92.3	85-115			
Magnesium	7.09	0.0080	1.0	"	8.00		88.7	85-115			
Duplicate (AC40544-DUP1)		Source: 1	14C0063-05		Prepared: (	03/05/14 A	nalyzed: 03	3/06/14			
Calcium	27.5	0.010	1.0	mg/l		27.5			0.0355	20	
Magnesium	22.9	0.0080	1.0	"		22.3			2.66	20	
Matrix Spike (AC40544-MS1)		Source: 1	14C0063-05		Prepared: (	03/05/14 A	nalyzed: 03	3/06/14			
Calcium	32.2	0.010	1.0	mg/l	5.80	27.5	80.7	70-130			
Magnesium	28.9	0.0080	1.0	"	8.00	22.3	82.8	70-130			
Matrix Spike (AC40544-MS2)		Source: 1	Source: 14C0011-01		Prepared: 03/05/14 Analyzed: 03/06/14			3/06/14			
Calcium	13.1	0.010	1.0	mg/l	5.80	7.64	94.7	70-130			
Magnesium	8.89	0.0080	1.0	"	8.00	1.64	90.7	70-130			
Matrix Spike Dup (AC40544-MSD1)		Source: 1	14C0063-05		Prepared: (	03/05/14 A	nalyzed: 03	3/06/14			
Calcium	31.4	0.010	1.0	mg/l	5.80	27.5	67.3	70-130	2.44	20	QM-01
Magnesium	28.7	0.0080	1.0	"	8.00	22.3	80.2	70-130	0.723	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reported:

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

03/17/14 08:13 Project Number: 063-7109-914

### Metals by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC40553 - EPA 1631											
Blank (AC40553-BLK1)					Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Mercury	ND	0.200	0.500	ng/l							U
LCS (AC40553-BS1)					Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Mercury	5.19	0.200	0.500	ng/l	5.00		104	77-123			
Matrix Spike (AC40553-MS1)		Source:	<b>Source: 14B1636-01</b> Prepared: 03/05/14 Analyzed: 03/06/14								
Mercury	24.1	0.200	0.500	ng/l	25.0	3.17	83.7	71-125			
Matrix Spike (AC40553-MS2)		Source:	14B1890-01		Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Mercury	41.6	0.200	0.500	ng/l	25.0	19.7	87.3	71-125			
Matrix Spike Dup (AC40553-MSD1)		Source: 14B1636-01			Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Mercury	26.0	0.200	0.500	ng/l	25.0	3.17	91.3	71-125	7.62	24	
Matrix Spike Dup (AC40553-MSD2)		Source:	14B1890-01		Prepared: 03/05/14 Analyzed: 03/06/14						
Mercury	42.0	0.200	0.500	ng/l	25.0	19.7	88.9	71-125	0.934	24	
Batch AC41066 - SM3500 Cr6 Water											
Blank (AC41066-BLK1)					Prepared &	t Analyzed:	03/10/14				
Chromium, hexavalent	ND	0.0050	0.010	mg/l		•					U
LCS (AC41066-BS1)					Prepared &	t Analyzed:	03/10/14				
Chromium, hexavalent	0.106	0.0050	0.010	mg/l	0.100	•	106	80-120			
Duplicate (AC41066-DUP1)		Source:	14C0328-01		Prepared & Analyzed: 03/10/14						
Chromium, hexavalent	ND	0.0050	0.010	mg/l		ND				20	U
•				Č							



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 03/17/14 08:13

### Metals by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

	D 1	MDI	Reporting	***	Spike	Source	A/BEG	%REC	DDD	RPD	N
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC41066 - SM3500 Cr6 Water											
Matrix Spike (AC41066-MS1)		Source: 1	4C0328-01		Prepared &	Analyzed:	03/10/14				
Chromium, hexavalent	0.0961	0.0050	0.010	mg/l	0.100	ND	96.1	0-200			
Matrix Spike (AC41066-MS2)		Source: 1	4B1731-01		Prepared & Analyzed: 03/10/14						
Chromium, hexavalent	0.0886	0.0050	0.010	mg/l	0.100	ND	88.6	0-200			
Matrix Spike Dup (AC41066-MSD1)		Source: 1	4C0328-01		Prepared &	Analyzed:	03/10/14				
Chromium, hexavalent	0.0950	0.0050	0.010	mg/l	0.100	ND	95.0	0-200	1.12	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 03/17/14 08:13

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AB42815 - General Preparation											
Blank (AB42815-BLK1)					Prepared: (	02/28/14 A	nalyzed: 03	/04/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AB42815-DUP1)		Source: 1	14B1687-03		Prepared: (	02/28/14 A	nalyzed: 03	/04/14			
Total Dissolved Solids	984	5.0	10	mg/l		1030			4.76	30	
Duplicate (AB42815-DUP2)		Source: 1	14B1819-01		Prepared: (	02/28/14 A	nalyzed: 03	/04/14			
Total Dissolved Solids	462	5.0	10	mg/l		474			2.56	30	
Batch AC40450 - General Preparation											
Blank (AC40450-BLK1)					Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AC40450-DUP1)		Source: 1	14B1824-03		Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Total Suspended Solids	40.0	0.30	0.50	mg/l		47.5			17.1	30	
Duplicate (AC40450-DUP2)		Source: 1	14B1925-01		Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Total Suspended Solids	220	0.30	0.50	mg/l		170			25.6	30	
Batch AC40544 - Metals Digest											
Blank (AC40544-BLK1)					Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Hardness, Total	ND	1	5	mg/l							U
Duplicate (AC40544-DUP1)		Source: 1	14C0063-05		Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Hardness, Total	163	1	5	mg/l		160			1.54	20	



e-mail: clientservices@alpha-labs.com

%REC

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reporting

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Spike

Source

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 03/17/14 08:13

RPD

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC41221 - General Prepara	tion										
Blank (AC41221-BLK1)					Prepared: (	03/12/14 A	nalyzed: 03	/14/14			
Oil & Grease (HEM)	ND	0.80	1.4	mg/l							U
LCS (AC41221-BS1)					Prepared: (	03/12/14 A	nalyzed: 03	/14/14			
Oil & Grease (HEM)	35.6	0.80	1.4	mg/l	40.0		89.0	78-114		18	
LCS Dup (AC41221-BSD1)					Prepared: (	03/12/14 A	nalyzed: 03	/14/14			
Oil & Grease (HEM)	38.9	0.80	1.4	mg/l	40.0		97.2	78-114	8.86	18	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 03/17/14 08:13

### Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC40339 - General Preparatio	n										
Blank (AC40339-BLK1)					Prepared &	z Analyzed:	03/03/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AC40339-BS1)					Prepared &	Analyzed:	03/03/14				
Chloride	9.07	0.030	0.50	mg/l	10.0		90.7	90-110			
Duplicate (AC40339-DUP1)		Source: 1	4C0047-02		Prepared: (	03/03/14 A	nalyzed: 03	3/04/14			
Chloride	31.9	0.060	1.0	mg/l		31.9			0.0627	20	
Matrix Spike (AC40339-MS1)		Source: 1	4C0047-02		Prepared: (	03/03/14 A	nalyzed: 03	3/04/14			
Chloride	43.1	0.060	1.0	mg/l	11.1	31.9	101	80-120			
Matrix Spike (AC40339-MS2)		Source: 1	4B1799-01		Prepared &	Analyzed:	03/03/14				
Chloride	10.6	0.030	0.50	mg/l	11.1	0.376	92.4	80-120			
Matrix Spike Dup (AC40339-MSD1)		Source: 1	4C0047-02		Prepared: (	03/03/14 A	nalyzed: 03	3/04/14			
Chloride	43.2	0.060	1.0	mg/l	11.1	31.9	102	80-120	0.216	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

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PO Box 660140 / Attention SSC AP - CEMENT

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#### **Notes and Definitions**

The spike recovery for this QC sample is outside of established control limits possibly due to a sample matrix interference. QM-01

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



March 26, 2014

Alpha Analytical Laboratories Inc. ATTN: Robbie Phillips 208 Mason St. Ukiah, CA 95482 robbie@alpha-labs.com

RE: Project AAL-DB1301 Client Project: 14B1890

Dear Mr. Phillips,

On March 5, 2014, Brooks Rand Labs (BRL) received two (2) water samples. The samples were logged-in for the contracted analyses of total silver (Ag), arsenic (As), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), nickel (Ni), lead (Pb), antimony (Sb), selenium (Se), thallium (TI), and zinc (Zn) according to the chain-of-custody (COC) forms. Samples for dissolved analyses were field filtered. The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The results were blank-corrected as described in the calculations section of the relevant SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the *Sample Results* page for sample-specific MDLs, MRLs, and other details.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (N/C).

The Ni matrix spike/matrix spike duplicate (MS/MSD) set performed on sample 1410027-01 had low recoveries. The sample was qualified for the low recoveries; however no samples from this work order were qualified.

Aside from concentration qualifiers, all data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more information please see the *Report Information* page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely,

Lydia Greaves Project Manager

lydia@brooksrand.com



BRL Report 1410011
Client PM: Robbie Phillips
Client PO: 130903RP-1

### **Report Information**

#### **Laboratory Accreditation**

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <a href="http://www.brooksrand.com/default.asp?contentID=586">http://www.brooksrand.com/default.asp?contentID=586</a>. Results reported relate only to the samples listed in the report.

### **Field Quality Control Samples**

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

#### **Common Abbreviations**

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
CRM	certified reference material	RPD	relative percent difference
D	dissolved fraction	RSD	relative standard deviation
DUP	duplicate	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction
IBL	instrument blank		

#### **Definition of Data Qualifiers**

(Effective 9/23/09)

- B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- **J** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- M Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- N Spike recovery was not within acceptance criteria. Result is estimated.
- R Rejected, unusable value. A full explanation is presented in the narrative.
- **U** Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.</u>



BRL Report 1410011
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Sample Information

Lab ID **Sample Report Matrix** Type Sampled Received 1410011-01 Water Sample 02/27/2014 03/05/2014 14B1890-01 Pond 13B EFF M-003 1410011-02 Water Sample 02/27/2014 03/05/2014 14B1890-02 Pond 13B DN R-002C

## **Batch Summary**

Analyte	Lab Matrix	Method	Prepared	Analyzed	Batch	Sequence
Ag	Water	EPA 1638	03/07/2014	03/21/2014	B140358	1400234
As	Water	EPA 1638 DRC	03/07/2014	03/10/2014	B140359	1400191
Be	Water	EPA 1638	03/07/2014	03/21/2014	B140358	1400234
Cd	Water	EPA 1638	03/07/2014	03/21/2014	B140358	1400234
Cr	Water	EPA 1638 DRC	03/07/2014	03/12/2014	B140360	1400204
Cu	Water	EPA 1638	03/07/2014	03/21/2014	B140358	1400234
Ni	Water	EPA 1638 DRC	03/07/2014	03/12/2014	B140360	1400204
Pb	Water	EPA 1638	03/07/2014	03/21/2014	B140358	1400234
Sb	Water	EPA 1638	03/07/2014	03/21/2014	B140358	1400234
Se	Water	EPA 1638 DRC	03/07/2014	03/10/2014	B140359	1400191
TI	Water	EPA 1638	03/07/2014	03/21/2014	B140358	1400234
Zn	Water	EPA 1638	03/07/2014	03/21/2014	B140358	1400234



BRL Report 1410011
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifie	er MDL	MRL	Unit	Batch	Sequence
14B1890-01 I	Pond 13B E	FF M-003								
1410011-01	Ag	Water	Т	0.011	В	0.005	0.021	μg/L	B140358	1400234
1410011-01	As	Water	Τ	0.705		0.009	0.032	μg/L	B140359	1400191
1410011-01	Be	Water	Т	0.053	U	0.053	0.158	μg/L	B140358	1400234
1410011-01	Cd	Water	Т	0.094		0.007	0.021	μg/L	B140358	1400234
1410011-01	Cr	Water	Т	3.43		0.009	0.032	μg/L	B140360	1400204
1410011-01	Cu	Water	Т	5.64		0.042	0.126	μg/L	B140358	1400234
1410011-01	Ni	Water	Т	7.37		0.053	0.211	μg/L	B140360	1400204
1410011-01	Pb	Water	Т	0.644		0.006	0.026	μg/L	B140358	1400234
1410011-01	Sb	Water	T	0.779		0.011	0.042	μg/L	B140358	1400234
1410011-01	Se	Water	T	22.8		0.021	0.063	μg/L	B140359	1400191
1410011-01	TI	Water	T	0.041		0.003	0.011	μg/L	B140358	1400234
1410011-01	Zn	Water	Т	9.01		0.06	0.21	μg/L	B140358	1400234
14B1890-02 I	ond 13B D	N R-002C								
1410011-02	Ag	Water	Т	0.009	В	0.005	0.021	μg/L	B140358	1400234
1410011-02	As	Water	Τ	1.40		0.009	0.032	μg/L	B140359	1400191
1410011-02	Be	Water	Τ	0.053	U	0.053	0.158	μg/L	B140358	1400234
1410011-02	Cd	Water	Τ	0.134		0.007	0.021	μg/L	B140358	1400234
1410011-02	Cr	Water	Τ	2.81		0.009	0.032	μg/L	B140360	1400204
1410011-02	Cu	Water	Τ	4.48		0.042	0.126	μg/L	B140358	1400234
1410011-02	Ni	Water	Τ	13.0		0.053	0.211	μg/L	B140360	1400204
1410011-02	Pb	Water	Т	0.367		0.006	0.026	μg/L	B140358	1400234
1410011-02	Sb	Water	Т	0.664		0.011	0.042	μg/L	B140358	1400234
1410011-02	Se	Water	Т	15.5		0.021	0.063	μg/L	B140359	1400191
1410011-02	TI	Water	Т	0.033		0.003	0.011	μg/L	B140358	1400234
1410011-02	Zn	Water	Т	5.49		0.06	0.21	μg/L	B140358	1400234



BRL Report 1410011
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140358 Lab Matrix: Water Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B140358-BS1	Laboratory Fortified E	siank (1351	0.4211	0.416	ua/l	99% 75-125	
	Ag Be		3.158	3.479	μg/L	110% 75-125	
	Сd		0.2105	0.229	μg/L	10% 75-125	
	Cu		2.105	2.227	μg/L		
	Pb		0.5259	0.555	μg/L	106% 75-125	
	Sb				μg/L	106% 75-125	
			0.4211	0.414	μg/L	98% 75-125	
	TI 7		0.2105	0.228	μg/L	108% 75-125	
	Zn		4.211	4.41	μg/L	105% 75-125	
B140358-SRM1	Certified Reference M	aterial (13	23040, NIST	Г 1643е)			
	Ag		1.062	0.979	μg/L	92% 75-125	
	Be		13.98	15.51	μg/L	111% 75-125	
	Cd		6.568	6.596	μg/L	100% 75-125	
	Cu		22.76	23.27	μg/L	102% 75-125	
	Pb		19.63	19.67	μg/L	100% 75-125	
	Sb		58.30	56.79	μg/L	97% 75-125	
	TI		7.445	7.463	μg/L	100% 75-125	
	Zn		78.50	84.16	μg/L	107% 75-125	
					. 0		
B140358-DUP1	Duplicate (1410011-01			0.040	/1		400/ 00
	Ag	0.011		0.012	μg/L		12% 20
	Be	ND		ND	μg/L		N/C 20
	Cd	0.094		0.089	μg/L		6% 20
	Cu	5.640		5.910	μg/L		5% 20
	Pb	0.644		0.646	μg/L		0.2% 20
	Sb	0.779		0.808	μg/L		4% 20
	TI -	0.041		0.041	μg/L		0.8% 20
	Zn	9.01		9.60	μg/L		6% 20



BRL Report 1410011
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140358 Lab Matrix: Water Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B140358-MS1	Matrix Spike (141001	1-01)	-				
	Ag	0.011	0.4211	0.365	μg/L	84% 75-125	
	Be	ND	0.2105	0.239	μg/L	113% 75-125	
	Cd	0.094	0.2105	0.299	μg/L	97% 75-125	
	Cu	5.640	2.105	7.782	μg/L	102% 75-125	
	Pb	0.644	0.5259	1.092	μg/L	85% 75-125	
	Sb	0.779	0.2105	0.990	μg/L	101% 75-125	
	TI	0.041	0.1053	0.137	μg/L	91% 75-125	
	Zn	9.01	10.53	18.85	μg/L	93% 75-125	
B140358-MSD1	Matrix Spike Duplica	te (1410011	l <b>-0</b> 1)				
	Ag	0.011	0.4211	0.363	μg/L	84% 75-125	0.6% 20
	Be	ND	0.2105	0.234	μg/L	111% 75-125	2% 20
	Cd	0.094	0.2105	0.301	μg/L	98% 75-125	0.7% 20
	Cu	5.640	2.105	7.651	μg/L	96% 75-125	2% 20
	Pb	0.644	0.5259	1.092	μg/L	85% 75-125	0.04% 20
	Sb	0.779	0.2105	0.998	μg/L	104% 75-125	0.7% 20
	TI	0.041	0.1053	0.139	μg/L	93% 75-125	1% 20
	Zn	9.01	10.53	19.32	μg/L	98% 75-125	2% 20



BRL Report 1410011
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140359 Lab Matrix: Water Method: EPA 1638 DRC

Sample B140359-BS1	Analyte Laboratory Fortified Bla As Se	Native ank (13510	<b>Spike</b> <b>061)</b> 5.263 6.316	5.230 5.280	<b>Units</b> μg/L μg/L	99% 75-125 84% 75-125	RPD & Limits
B140359-SRM1	Certified Reference Mat As Se	terial (132	<b>3040, NIST</b> 60.45 11.97	<b>1643e)</b> 61.04 11.99	μg/L μg/L	101% 75-125 100% 75-125	
B140359-DUP2	Duplicate (1410011-01) As Se	0.705 22.77		0.692 22.30	μg/L μg/L		2% 20 2% 20
B140359-MS2	Matrix Spike (1410011-0 As Se	01) 0.705 22.77	1.053 31.58	1.934 47.76	μg/L μg/L	117% 75-125 79% 75-125	
B140359-MSD2	Matrix Spike Duplicate As Se	(1410011-0 0.705 22.77	<b>01)</b> 1.053 31.58	1.821 47.85	μg/L μg/L	106% 75-125 79% 75-125	6% 20 0.2% 20



BRL Report 1410011
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Accuracy & Precision Summary

Batch: B140360 Lab Matrix: Water Method: EPA 1638 DRC

Sample B140360-BS1	Analyte Laboratory Fortified Cr	Native d Blank (1351	<b>Spike</b> 1 <b>061)</b> 3.162	Result 3.126	<b>Units</b> μg/L	<b>REC &amp; Limits</b> 99% 75-125	RPD & Limits
	Ni		4.211	4.275	μg/L	102% 75-125	
					M9/ =	10270 10 120	
B140360-SRM1	Certified Reference	Material (13)	23040. NIST	Г 1643е)			
	Cr		20.40	19.76	μg/L	97% 75-125	
	Ni		62.41	61.23	μg/L	98% 75-125	
B140360-SRM2	Certified Reference	Material (13	52079, Fe, (	Ca check (S	SCV3 as S		
	Cr		50.00	48.90	μg/L	98% 0-200	
	Ni		20.00	20.44	μg/L	102% 0-200	
B140360-DUP1	Duplicate (1410027-	-01)					
D140300-D01 1	Cr	1.698		1.686	μg/L		0.7% 20
	Ni	10.15		10.31	μg/L		2% 20
	111	10.10		10.01	P9, L		270 20
B140360-MS1	Matrix Spike (14100	27-01)					
	Ċr `	1.698	10.54	10.42	μg/L	83% 75-125	
	Ni	10.15	10.53	17.70	μg/L	<b>72%</b> 75-125	
D4 40000 MCD4	Matein Online B. III	-1- (4.44000	. 04)				
B140360-MSD1	Matrix Spike Duplic			40.04	- /1	040/ 75 405	00/ 00
	Cr	1.698	10.54	10.24	μg/L	81% 75-125	2% 20
	Ni	10.15	10.53	17.42	μg/L	69% 75-125	2% 20

**Project ID:** AAL-DB1301 **PM:** Lydia Greaves



BRL Report 1410011
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Method Blanks & Reporting Limits

Batch: B140358 Matrix: Water Method: EPA 1638 Analyte: Ag 107

Sample	Result	Units
B140358-BLK1	-0.002	μg/L
B140358-BLK2	-0.002	μg/L
B140358-BLK3	-0.002	μg/L
B140358-BLK4	-0.002	μg/L

 Average: -0.002
 Standard Deviation: 0.000
 MDL: 0.005

 Limit: 0.021
 Limit: 0.005
 MRL: 0.021

Analyte: Be

Sample	Result	Units
B140358-BLK1	-0.006	μg/L
B140358-BLK2	-0.006	μg/L
B140358-BLK3	-0.006	μg/L
R140358-BLK4	-0.007	ua/l

Average: -0.006 Standard Deviation: 0.000 MDL: 0.053 Limit: 0.158 Limit: 0.053 MRL: 0.158

Analyte: Cd 114

Sample	Result	Units
B140358-BLK1	-0.002	μg/L
B140358-BLK2	-0.002	μg/L
B140358-BLK3	-0.002	μg/L
B140358-BLK4	-0.002	ua/l

 Average: -0.002
 Standard Deviation: 0.000
 MDL: 0.007

 Limit: 0.021
 Limit: 0.007
 MRL: 0.021

**Project ID:** AAL-DB1301 **PM:** Lydia Greaves



BRL Report 1410011
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Method Blanks & Reporting Limits

Analyte: Cu 63

Sample	Result	Units
B140358-BLK1	-0.008	μg/L
B140358-BLK2	-0.008	μg/L
B140358-BLK3	-0.008	μg/L
B140358-BLK4	-0.009	ua/l

Average: -0.008 Standard Deviation: 0.000 MDL: 0.042 Limit: 0.126 Limit: 0.042 MRL: 0.126

Analyte: Pb

Sample	Result	Units
B140358-BLK1	-0.002	μg/L
B140358-BLK2	-0.002	μg/L
B140358-BLK3	-0.002	μg/L
R140358-RI K4	-0.002	ua/l

Analyte: Sb

Sample	Result	Units
B140358-BLK1	0.0006	μg/L
B140358-BLK2	0.0002	μg/L
B140358-BLK3	0.0002	μg/L
B140358-BLK4	0.001	ua/L

 Average: 0.001
 Standard Deviation: 0.000
 MDL: 0.011

 Limit: 0.042
 Limit: 0.011
 MRL: 0.042

Analyte: TI

Sample	Result	Units
B140358-BLK1	-0.002	μg/L
B140358-BLK2	-0.002	μg/L
B140358-BLK3	-0.002	μg/L
B140358-BLK4	-0.002	μg/L

 Average: -0.002
 Standard Deviation: 0.000
 MDL: 0.003

 Limit: 0.011
 Limit: 0.003
 MRL: 0.011

Project ID: AAL-DB1301 PM: Lydia Greaves



BRL Report 1410011 Client PM: Robbie Phillips Client PO: 130903RP-1

# Method Blanks & Reporting Limits

Analyte: Zn 66

Sample	Result	Units
B140358-BLK1	0.001	μg/L
B140358-BLK2	0.0004	μg/L
B140358-BLK3	0.002	μg/L
B140358-BLK4	0.004	µg/L

**Standard Deviation:** 0.00 Average: 0.00 **MDL**: 0.06 **Limit:** 0.21

**Limit:** 0.06 **MRL:** 0.21 **Project ID:** AAL-DB1301 **PM:** Lydia Greaves



BRL Report 1410011
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Method Blanks & Reporting Limits

Batch: B140359 Matrix: Water

Method: EPA 1638 DRC

Analyte: As 91

Sample	Result	Units
B140359-BLK1	0.0009	μg/L
B140359-BLK2	0.0007	μg/L
B140359-BLK3	0.001	μg/L
B140359-BLK4	0.0009	μg/L

 Average: 0.001
 Standard Deviation: 0.000
 MDL: 0.009

 Limit: 0.032
 Limit: 0.009
 MRL: 0.032

Analyte: Se 78

Sample	Result	Units
B140359-BLK1	0.028	μg/L
B140359-BLK2	0.028	μg/L
B140359-BLK3	0.028	μg/L
B140359-BLK4	0.027	ua/L

 Average: 0.028
 Standard Deviation: 0.001
 MDL: 0.021

 Limit: 0.063
 Limit: 0.021
 MRL: 0.063

**Project ID:** AAL-DB1301 **PM:** Lydia Greaves



BRL Report 1410011
Client PM: Robbie Phillips
Client PO: 130903RP-1

# Method Blanks & Reporting Limits

Batch: B140360 Matrix: Water

Method: EPA 1638 DRC

Analyte: Cr 52

Sample	Result	Units
B140360-BLK1	-0.0009	μg/L
B140360-BLK2	-0.003	μg/L
B140360-BLK3	-0.002	μg/L
B140360-BLK4	-0.003	µg/L

 Average: -0.002
 Standard Deviation: 0.001
 MDL: 0.009

 Limit: 0.032
 Limit: 0.009
 MRL: 0.032

Analyte: Ni 62

Sample	Result	Units
B140360-BLK1	-0.012	μg/L
B140360-BLK2	-0.015	μg/L
B140360-BLK3	-0.015	μg/L
B140360-BLK4	-0.016	ua/l

 Average: -0.015
 Standard Deviation: 0.002
 MDL: 0.053

 Limit: 0.211
 Limit: 0.053
 MRL: 0.211

Project ID: AAL-DB1301 PM: Lydia Greaves



BRL Report 1410011 **Client PM:** Robbie Phillips Client PO: 130903RP-1

**COC present?** Yes

## Sample Containers

Lab ID: 1410011-01 Report Matrix: Water Collected: 02/27/2014 **Sample:** 14B1890-01 Pond 13B EFF M-003 Sample Type: Sample Received: 03/05/2014 **Des Container** Size **Preservation** P-Lot рH Ship. Cont. Lot Client-Provided 500mL W1297FU 0.1% HNO3 (BRL) 1350086 <2 Cooler

DP

**Lab ID**: 1410011-02 Report Matrix: Water Collected: 02/27/2014 Sample: 14B1890-02 Pond 13B DN R-002C Sample Type: Sample Received: 03/05/2014 **Des Container** Size Lot **Preservation** P-Lot Ha Ship. Cont. Client-Provided 500mL W1297FU 0.1% HNO3 (BRL) 1350086 <2 Cooler DP

# **Shipping Containers**

#### Cooler

Custody seals present? Yes **Received:** March 5, 2014 9:00 **Description:** Cooler Tracking No: 1Z8942500147118377 via FedEx Damaged in transit? No Custody seals intact? Yes

Temperature: 1.5 °C

Coolant Type: Ice Returned to client? No.

#### SUBCONTRACT ORDER

### Alpha Analytical Laboratories, Inc.

#### 14B1890

#### SENDING LABORATORY:

Alpha Analytical Laboratories, Inc.

208 Mason St. Ukiah, CA 95482 Phone: (707)468-0401

Project Manager:

Fax: (707)468-5267 Robbie C. Phillips RECEIVING LABORATORY:

Brooks Rand Labs, LLC 3958 6th Avenue NW Seattle, WA 98107 Phone: (206) 632-6206

Fax: (206) 632-6017

Terms: Net 30

Analysis	Due	Expires	Comments
4B1890-01 Pond 13B	EFF M-003 [Water	Sampled 02/27/14 12:20 Pacific	
1638 Zn Total ICPMS	03/14/14 12:00	08/26/14 12:20	
1638 As Total ICPMS	03/14/14 12:00	08/26/14 12:20	
1638 Be Total ICPMS	03/14/14 12:00	08/26/14 12:20	
1638 Cd Total ICPMS	03/14/14 12:00	08/26/14 12:20	
1638 Cr Total ICPMS	03/14/14 12:00	08/26/14 12:20	
1638 Cu Total ICPMS	03/14/14 12:00	08/26/14 12:20	
1638 Ni Total ICPMS	03/14/14 12:00	08/26/14 12:20	
1638 Pb Total ICPMS	03/14/14 12:00	08/26/14 12:20	
1638 Sb Total ICPMS	03/14/14 12:00	08/26/14 12:20	
1638 Se Total ICPMS	03/14/14 12:00	08/26/14 12:20	
1638 Ag Total ICPMS	03/14/14 12:00	08/26/14 12:20	
1638 TI Total ICPMS	03/14/14 12:00	08/26/14 12:20	
Containers Supplied:			
500ml Glass - Unpreser	ve		
14B1890-02 Pond 13B	DN R-002C   Water	r] Sampled 02/27/14 12:40 Pacific	
1638 Zn Total ICPMS	03/14/14 12:00	08/26/14 12:40	
1638 As Total ICPMS	03/14/14 12:00	08/26/14 12:40	
1638 Be Total ICPMS	03/14/14 12:00	08/26/14 12:40	
1638 Cd Total ICPMS	03/14/14 12:00	08/26/14 12:40	
1638 Cr Total ICPMS	03/14/14 12:00	08/26/14 12:40	
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Containers Supplied:

1638 Cu Total ICPMS

1638 Ni Total ICPMS

1638 Pb Total ICPMS

1638 Sb Total ICPMS

1638 Se Total ICPMS

1638 Tl Total ICPMS

1638 Ag Total ICPMS

500ml Glass - Unpreserve

Released By

2-28-14

03/14/14 12:00

03/14/14 12:00

03/14/14 12:00

03/14/14 12:00

03/14/14 12:00

03/14/14 12:00

03/14/14 12:00

Received By

3/5/14

Released By

Date

15 of 16 Received By

Date

### SUBCONTRACT ORDER

BRL Report 1410011

## Alpha Analytical Laboratories, Inc.

### 14B1890

Report to State	
System Name:	Employed by:
User ID:	Sampler:
System Number:	

+QC +J-Flags

Released By

Date

Received By

3/5/14 Date

Date

Released By

Date

16 of 16 By

Date

Golder Associates

Golder Associates CHAIN OF CUSTODY

068181h1

210 (U Page / of / Quotation No. Po# 150551989

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ries Inc. e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

18 March 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140 RE: Lehigh Permanente

Work Order: 14C0019

Enclosed are the results of analyses for samples received by the laboratory on 02/28/14 20:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Dallas TX, 75266-0140

Project Manager: Chow Yip

Project: Lehigh Permanente

Project Number: 637109914 / SW

Reported: 03/18/14 08:57

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
QC Lab PL	14C0019-01	Water	02/28/14 09:30	02/28/14 20:45



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reported: 03/18/14 08:57

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh Permanente

Project Number: 637109914 / SW

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
QC Lab PL (14C0019-01) Water	Sampled: 02/28/14	09:30 Rec	eived: 02/28	8/14 20:45	i					
Oil & Grease (HEM)	2.9	0.80	5.0	mg/l	1	AC41223	03/12/14 07:19	03/17/14 16:54	EPA 1664A	QC-MS, J
<b>Total Suspended Solids</b>	2.5	0.30	1.0	"	"	AC40551	03/05/14 13:17	03/06/14 17:00	SM2540D	
<b>Total Organic Carbon</b>	13.2	0.100	0.300	"	"	AC41068	03/10/14 19:13	03/14/14 15:39	SM5310C	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reported:

03/18/14 08:57

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh Permanente

Project Number: 637109914 / SW

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC40551 - General Preparation	on										
Blank (AC40551-BLK1)					Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AC40551-DUP1)		Source:	14C0030-01		Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Total Suspended Solids	880	0.30	0.50	mg/l		880			0.00	30	
Duplicate (AC40551-DUP2)		Source:	14C0013-02		Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Total Suspended Solids	250	0.30	0.50	mg/l		50.0			133	30	QD-02
Batch AC41068 - General Prep											
Blank (AC41068-BLK1)					Prepared: (	03/10/14 A	nalyzed: 03	/14/14			
Total Organic Carbon	ND	0.100	0.300	mg/l							U
LCS (AC41068-BS1)					Prepared: (	03/10/14 A	nalyzed: 03	/14/14			
Total Organic Carbon	10.2	0.100	0.300	mg/l	10.0		102	85-115			
LCS Dup (AC41068-BSD1)					Prepared: (	03/10/14 A	nalyzed: 03	/14/14			
Total Organic Carbon	10.3	0.100	0.300	mg/l	10.0		103	85-115	0.403	20	
Duplicate (AC41068-DUP1)		Source:	14C0321-01		Prepared: (	03/10/14 A	nalyzed: 03	/14/14			
Total Organic Carbon	ND	0.100	0.300	mg/l	•	ND				20	U
Matrix Spike (AC41068-MS1)		Source:	14C0321-01		Prepared: (	03/10/14 A	nalyzed: 03	/14/14			
Total Organic Carbon	10.3	0.100	0.300	mg/l	10.0	ND	103	70-130			
Matrix Spike Dup (AC41068-MSD1)		Source:	14C0321-01		Prepared: (	03/10/14 A	nalyzed: 03	/14/14			
Total Organic Carbon	10.3	0.100	0.300	mg/l	10.0	ND	103	70-130	0.194	20	



e-mail: clientservices@alpha-labs.com

%REC

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reporting

Dallas TX, 75266-0140

Project: Lehigh Permanente

Spike

Source

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 637109914 / SW

Reported: 03/18/14 08:57

RPD

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC41223 - General Preparati	on										
Blank (AC41223-BLK1)					Prepared: (	03/12/14 Aı	nalyzed: 03	/17/14			
Oil & Grease (HEM)	ND	0.80	5.0	mg/l							U
LCS (AC41223-BS1)					Prepared: (	03/12/14 Aı	nalyzed: 03	/17/14			
Oil & Grease (HEM)	33.0	0.80	5.0	mg/l	40.0		82.5	78-114			
LCS Dup (AC41223-BSD1)					Prepared: (	03/12/14 A1	nalyzed: 03	/17/14			
Oil & Grease (HEM)	36.2	0.80	5.0	mg/l	40.0		90.5	78-114	9.25	18	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company Project Manager: Chow Yip

Dallas TX, 75266-0140 Project: Lehigh Permanente Reported:
PO Box 660140 / Attention SSC AP - CEMENT Project Number: 637109914 / SW 03/18/14 08:57

#### **Notes and Definitions**

J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

QC-MS MS/MSD not included with this batch due to insufficient sample volume.

QD-02 High duplicate RPD due to sample non-homogeneity.

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Pageof Quotation No. Direct Bill to Lehigh, item 7	EDD Required?	MENO	EDF Required?	Ves		Cont	Qry. Remarks	3-17-14 By Km	SEND RESULTS TO: Lehigh: Greg Knapp, ChowYip Attention: George Wegmann Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224
14C0019					- 1.25	,,,			SEND RESULTS TO: Lehigh: Greg Knapp, Cl Attention: George Wo Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9223
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Golder Associates Inc. CHAIN OF CUSTODY		-ж	1991):	26 Grease	L- 2000 2110	poly_amber         voa           1L         1L 40 ml           N         N	N H2SO4 113PO4		Date/Til Date/Til Date/Til
Golder As CHAIN OF	AE:	Lehigh Permanente - SW		Container	in l	Type P Volume Filter	Matrix Depth Preserv.	M	Received by (signature):  Received by (signature):  Received by (signature):
er	SE NO.: SITE NAME:	Lehi	RE(S):	ATORY: Alpha	E: Standard	Collection	Date Time	2-38-14 0938 1	
Golder Golder	PROJECT AND PHASE NO.:	637109914	SAMPLER SIGNATURE(S):	CONTRACT LABORATORY: Alpha	TURN-AROUND TIME:	Sample	ai ai	QC Lab Pl.	Relinquished by (signature) Relinquished by (signature) Relinquished by (signature)

#### Sean Foley@Alpha Labs

From:

"Robbie Phillips" <Robbie@alpha-labs.com>

To:

"Foley Sean" <sfoley@alpha-labs.com>; "Shoberg Jim" <jshoberg@alpha-labs.com>

Sent: Subject: Monday, March 03, 2014 4:46 PM Fw: Emailing: 14C0019 COC 01

From: Wegmann, George

Sent: Monday, March 03, 2014 3:38 PM

To: Robbie Phillips

Subject: RE: Emailing: 14C0019\_COC\_01

We made a mistake with the COC, it should be for TOC, not COD. Please run the sample for TOC and not COD. This also applies to Pond 30 if the same mistake is present – run for TOC, not COD.

Thanks

From: Robbie Phillips [mailto:Robbie@alpha-labs.com]

Sent: Monday, March 03, 2014 3:29 PM

To: Wegmann, George

Subject: Emailing: 14C0019\_COC\_01

Hello George,

We received this COC but we received 2 x Vials (H3PO4) which are for TOC analyses which isn't listed. The COC requests COD which we didn't receive a bottle for, however, we can pull it from one of the 1 liter amber glass (H2SO4) extras. COD requires a poly container with H2SO4.

Can you confirm that you don't need TOC??

Thanks.

Robbie

Your message is ready to be sent with the following file or link attachments: 14C0019\_COC\_01

Note: To protect against computer viruses, e-mail programs may prevent sending or receiving certain types of file attachments. Check your e-mail security settings to determine how attachments are handled.



e-mail: clientservices@alpha-labs.com

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ELAP Certificate Numbers 1551 and 2728

17 March 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14C0025

Enclosed are the results of analyses for samples received by the laboratory on 02/28/14 20:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: Composite / 063-7109-914

Reported: 03/17/14 10:18

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 9 Composite	14C0025-01	Water	02/28/14 12:55	02/28/14 20:45
Pond 17 Composite	14C0025-02	Water	02/28/14 13:45	02/28/14 20:45



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: Composite / 063-7109-914

Reported: 03/17/14 10:18

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 9 Composite (14C0025-01) Water	Sampled: 02/2	28/14 12:55	Received	: 02/28/14	1 20:45					
<b>Total Suspended Solids</b>	20	0.30	0.50	mg/l	1	AC40551	03/05/14 13:17	03/06/14 17:00	SM2540D	
Pond 17 Composite (14C0025-02) Water	Sampled: 02	/28/14 13:45	Receive	d: 02/28/1	14 20:45					
<b>Total Suspended Solids</b>	19	0.30	0.50	mg/l	1	AC40551	03/05/14 13:17	03/06/14 17:00	SM2540D	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Reported: 03/17/14 10:18

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: Composite / 063-7109-914

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

A 1.	D. I	MDI	Reporting	TT :	Spike	Source	0/DEC	%REC	DDD	RPD	N
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC40551 - General Preparatio	n										
Blank (AC40551-BLK1)					Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AC40551-DUP1)		Source: 1	14C0030-01		Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Total Suspended Solids	880	0.30	0.50	mg/l		880			0.00	30	
Duplicate (AC40551-DUP2)		Source: 1	14C0013-02		Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Total Suspended Solids	250	0.30	0.50	mg/l		50.0			133	30	QD-02



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: Composite / 063-7109-914 Reported: 03/17/14 10:18

#### **Notes and Definitions**

QD-02 High duplicate RPD due to sample non-homogeneity.

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Golder Associates

CHAIN OF CUSTODY Golder Associates

Quotation No. Po##\$500557289 Page ( of 玩~~~

No 3 Attn: George Wagmanny Greg Knapp, EDD required? EDF required? Remarks Yes Yes Golder Associates Inc. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224 Cont. SEND RESULTS TO ANALYSES 551 5 Min Container Info Type/Vol. Composit Preserv. Filter Lebish StG Permit David C. Yalt Matrix Depth Received by: (signature) Received by: (signature SITE NAME: Standard 134S Time 2361 N.865 Collection Date CONTRACT LABORATORY: David Walter MM TURN-AROUND TIME: Pond 17 Composite 416-6012 - 570 Pond 1 Composite Lab I.D. PROJECT NO.: SAMPLER(S): Sample I.D. Baril

yellow: project fil white lab copy

Short.



e-mail: clientservices@alpha-labs.com

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ELAP Certificate Numbers 1551 and 2728

18 March 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14C0028

Enclosed are the results of analyses for samples received by the laboratory on 02/28/14 20:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 03/18/14 08:53

PO Box 660140 / Attention SSC AP - CEMENT

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 EFF M-001	14C0028-01	Water	02/28/14 10:35	02/28/14 20:45
Pond 9 EFF M-002	14C0028-02	Water	02/28/14 12:30	02/28/14 20:45
Pond 9 UP R-001B	14C0028-03	Water	02/28/14 12:40	02/28/14 20:45
Pond 9 DN R-002B	14C0028-04	Water	02/28/14 12:45	02/28/14 20:45
Pond 13 EFF M-003	14C0028-05	Water	02/28/14 12:10	02/28/14 20:45
Pond 17 EFF M-004	14C0028-06	Water	02/28/14 13:30	02/28/14 20:45
Pond 17 DN R-002D	14C0028-07	Water	02/28/14 13:40	02/28/14 20:45
Pond 20 M-005	14C0028-08	Water	02/28/14 08:30	02/28/14 20:45
Pond 20 DN/21	14C0028-09	Water	02/28/14 08:50	02/28/14 20:45



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Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 03/18/14 08:53

#### Metals by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 13 EFF M-003 (14C0028-05) Water	Sampled:	02/28/14 12:	10 Receiv	ed: 02/28	/14 20:45					
Chromium, hexavalent	ND	0.0050	0.010	mg/l	1	AC41066	03/10/14 14:00	03/10/14 16:28	SM3500-Cr B	U



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Project Manager: Chow Yip

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Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 03/18/14 08:53

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

			eporting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4 EFF M-001 (14C0028-01) Water	Sampled: 0	2/28/14 10:35	Receive	ed: 02/28/	14 20:45					
Oil & Grease (HEM)	ND	0.80	1.4	mg/l	1	AC41223	03/12/14 07:19	03/17/14 16:54	EPA 1664A	QC-MS, U
<b>Total Dissolved Solids</b>	900	5.0	10	"	"	AC40421	03/04/14 10:30	03/10/14 14:30	SM2540C	
<b>Total Suspended Solids</b>	1.7	0.30	0.50	"	"	AC40551	03/05/14 13:17	03/06/14 17:00	SM2540D	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AC40561	03/01/14 13:00	03/01/14 17:00	SM2540F	U
Pond 9 EFF M-002 (14C0028-02) Water	Sampled: 0	2/28/14 12:30	Receive	ed: 02/28/	14 20:45					
<b>Total Dissolved Solids</b>	550	5.0	10	mg/l	1	AC40421	03/04/14 10:30	03/10/14 14:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AC40561	03/01/14 13:00	03/01/14 17:00	SM2540F	U
Pond 9 UP R-001B (14C0028-03) Water	Sampled: 0	2/28/14 12:40	Receive	d: 02/28/1	14 20:45					
<b>Total Dissolved Solids</b>	1700	5.0	10	mg/l	1	AC40421	03/04/14 10:30	03/10/14 14:30	SM2540C	
Pond 9 DN R-002B (14C0028-04) Water	Sampled: 0	2/28/14 12:45	Receive	ed: 02/28/	14 20:45					
<b>Total Dissolved Solids</b>	620	5.0	10	mg/l	1	AC40421	03/04/14 10:30	03/10/14 14:30	SM2540C	
Pond 17 EFF M-004 (14C0028-06) Water	r Sampled:	02/28/14 13:30	Receiv	ed: 02/28	3/14 20:45					
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	1	AC40421	03/04/14 10:30	03/10/14 14:30	SM2540C	
<b>Total Settleable Solids</b>	0.10	0.10	0.10	ml/l	"	AC40561	03/01/14 13:00	03/01/14 17:00	SM2540F	
Pond 17 DN R-002D (14C0028-07) Water	r Sampled:	02/28/14 13:40	) Receiv	ved: 02/28	3/14 20:45					
<b>Total Dissolved Solids</b>	920	5.0	10	mg/l	1	AC40421	03/04/14 10:30	03/10/14 14:30	SM2540C	
Pond 20 M-005 (14C0028-08) Water Sa	impled: 02/28	3/14 08:30 Re	ceived: 0	2/28/14 2	0:45					
<b>Total Dissolved Solids</b>	940	5.0	10	mg/l	1	AC40421	03/04/14 10:30	03/10/14 14:30	SM2540C	
<b>Total Suspended Solids</b>	57	0.30	0.50	"	"	AC40551	03/05/14 13:17	03/06/14 17:00	SM2540D	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AC40561	03/01/14 13:00	03/01/14 17:00	SM2540F	U



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 03/18/14 08:53

#### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 20 DN/21 (14C0028-09) Water	Sampled: 02/28/1	4 08:50	Received: 0	2/28/14 2	0:45					
<b>Total Dissolved Solids</b>	1100	5.0	10	mg/l	1	AC40421	03/04/14 10:30	03/10/14 14:30	SM2540C	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 03/18/14 08:53

# Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

		Re	porting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4 EFF M-001 (14C0028-01) Water	Sampled: 02/	28/14 10:35	Receive	1: 02/28/1	4 20:45					
Chloride	74	0.15	2.5	mg/l	5	AC40831	03/08/14 10:23	03/10/14 19:40	EPA 300.0	
Pond 9 EFF M-002 (14C0028-02) Water	Sampled: 02/	28/14 12:30	Receive	1: 02/28/1	4 20:45					
Chloride	61	0.60	10	mg/l	20	AC40831	03/08/14 10:23	03/08/14 17:28	EPA 300.0	
Pond 9 UP R-001B (14C0028-03) Water	Sampled: 02/2	28/14 12:40	Received	l: 02/28/1	4 20:45					
Chloride	150	1.5	25	mg/l	50	AC40831	03/08/14 10:23	03/08/14 17:43	EPA 300.0	
Pond 9 DN R-002B (14C0028-04) Water	Sampled: 02/	28/14 12:45	Received	1: 02/28/1	4 20:45					
Chloride	67	0.60	10	mg/l	20	AC40831	03/08/14 10:23	03/08/14 17:58	EPA 300.0	
Pond 17 EFF M-004 (14C0028-06) Water	Sampled: 02	2/28/14 13:30	Receive	ed: 02/28	/14 20:45					
Chloride	73	0.75	12	mg/l	25	AC40831	03/08/14 10:23	03/08/14 18:13	EPA 300.0	
Pond 17 DN R-002D (14C0028-07) Water	Sampled: 02	2/28/14 13:40	Receiv	ed: 02/28	/14 20:45					
Chloride	70	0.60	10	mg/l	20	AC40831	03/08/14 10:23	03/08/14 18:28	EPA 300.0	
Pond 20 M-005 (14C0028-08) Water Sa	mpled: 02/28/1	4 08:30 Re	ceived: 02	2/28/14 20	):45					
Chloride	72	0.60	10	mg/l	20	AC40831	03/08/14 10:23	03/08/14 18:44	EPA 300.0	
Pond 20 DN/21 (14C0028-09) Water Sa	mpled: 02/28/1	4 08:50 Red	ceived: 02	2/28/14 20	):45					
Chloride	84	0.75	12	mg/l	25	AC40831	03/08/14 10:23	03/08/14 18:59	EPA 300.0	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 03/18/14 08:53

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

### Metals by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC41066 - SM3500 Cr6 Water											
Blank (AC41066-BLK1)					Prepared &	: Analyzed:	03/10/14				
Chromium, hexavalent	ND	0.0050	0.010	mg/l							U
LCS (AC41066-BS1)					Prepared &	Analyzed:	03/10/14				
Chromium, hexavalent	0.106	0.0050	0.010	mg/l	0.100		106	80-120			
Duplicate (AC41066-DUP1)		Source: 1	4C0328-01		Prepared &	: Analyzed:	03/10/14				
Chromium, hexavalent	ND	0.0050	0.010	mg/l		ND				20	U
Matrix Spike (AC41066-MS1)		Source: 1	4C0328-01		Prepared &	Analyzed:	03/10/14				
Chromium, hexavalent	0.0961	0.0050	0.010	mg/l	0.100	ND	96.1	0-200			
Matrix Spike (AC41066-MS2)		Source: 1	4B1731-01		Prepared &	Analyzed:	03/10/14				
Chromium, hexavalent	0.0886	0.0050	0.010	mg/l	0.100	ND	88.6	0-200			
Matrix Spike Dup (AC41066-MSD1)		Source: 1	4C0328-01		Prepared &	: Analyzed:	03/10/14				
Chromium, hexavalent	0.0950	0.0050	0.010	mg/l	0.100	ND	95.0	0-200	1.12	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 03/18/14 08:53

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC40421 - General Prepar	ation									_	
Blank (AC40421-BLK1)					Prepared: (	03/04/14 A	nalyzed: 03	/10/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
<b>Duplicate (AC40421-DUP1)</b>		Source:	14C0028-07	•	Prepared: (	03/04/14 A	nalyzed: 03	/10/14			
Total Dissolved Solids	908	5.0	10	mg/l		920			1.31	30	
<b>Duplicate (AC40421-DUP2)</b>		Source:	14C0078-03	i	Prepared: (	03/04/14 A	nalyzed: 03	/10/14			
Total Dissolved Solids	320	5.0	10	mg/l		309			3.50	30	
Batch AC40551 - General Prepar	ation										
Blank (AC40551-BLK1)					Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AC40551-DUP1)		Source:	14C0030-01		Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Total Suspended Solids	880	0.30	0.50	mg/l		880			0.00	30	
Duplicate (AC40551-DUP2)		Source:	14C0013-02		Prepared: (	03/05/14 A	nalyzed: 03	/06/14			
Total Suspended Solids	250	0.30	0.50	mg/l		50.0			133	30	QD-02
Batch AC41223 - General Prepar	ation										
Blank (AC41223-BLK1)					Prepared: (	03/12/14 A	nalyzed: 03	/17/14			
Oil & Grease (HEM)	ND	0.80	1.4	mg/l							U
LCS (AC41223-BS1)					Prepared: (	03/12/14 A	nalyzed: 03	/17/14			
Oil & Grease (HEM)	33.0	0.80	1.4	mg/l	40.0		82.5	78-114		18	



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Reported: 03/18/14 08:53

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### **Batch AC41223 - General Preparation**

LCS Dup (AC41223-BSD1)					Prepared: 03/12/14 Ana	lyzed: 03/	17/14		
Oil & Grease (HEM)	36.2	0.80	1.4	mg/l	40.0	90.5	78-114	9.25	18



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Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 03/18/14 08:53

### Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC40831 - General Preparation	1										
Blank (AC40831-BLK1)					Prepared &	Analyzed:	03/08/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AC40831-BS1)					Prepared &	Analyzed:	03/08/14				
Chloride	11.5	0.030	0.50	mg/l	11.1		103	90-110			
Duplicate (AC40831-DUP1)		Source: 14	4C0307-01		Prepared: (	03/08/14 A	nalyzed: 03	3/09/14			
Chloride	12.6	0.030	0.50	mg/l		12.6			0.222	20	
Matrix Spike (AC40831-MS1)		Source: 14	4C0307-01		Prepared: (	03/08/14 A	nalyzed: 03	3/09/14			
Chloride	24.2	0.060	1.0	mg/l	11.1	12.6	105	80-120			
Matrix Spike (AC40831-MS2)		Source: 14	4C0169-02		Prepared: (	03/08/14 A	nalyzed: 03	3/09/14			
Chloride	18.5	0.060	1.0	mg/l	11.1	7.40	99.9	80-120			
Matrix Spike Dup (AC40831-MSD1)		Source: 14	4C0307-01		Prepared: (	03/08/14 A	nalyzed: 03	3/10/14			
Chloride	24.4	0.060	1.0	mg/l	11.1	12.6	106	80-120	0.476	20	



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Reported: 03/18/14 08:53

Project Number: 063-7109-914

#### **Notes and Definitions**

QC-MS MS/MSD not included with this batch due to insufficient sample volume.

QD-02 High duplicate RPD due to sample non-homogeneity.

U Analyte included in analysis, but not detected at or above MDL.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

dry Sample results reported on a dry weight basis

Relative Percent Difference RPD

G Golder Associates

Golder Associates CHAIN OF CUSTODY

14C0028 Page of Countation No. Port 4500554289

PROJECT NO.:	SITE NAME: 17		Quotation No. ron 45 possy 389
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white: lab copy vellow: project file			4775-077 (OOL) VB



### Sheri Speaks < speaks78@gmail.com>

### Fw: Lehigh samples 2/27-28

1 message

Robbie Phillips < Robbie@alpha-labs.com>

Tue, Mar 11, 2014 at 6:39 AM

To: Speaks Sheri <speaks78@gmail.com>

Can you cancel some analyses as highlighted below along with sending revised work order summaries to Kimberly? Thanks for your help.

#### Robbie

----Original Message----From: DeVillier, Kimberly

Sent: Sunday, March 09, 2014 9:58 PM

To: Robbie Phillips (Alpha Labs); Wegmann, George

Cc: Walter, David (Sunnyvale)
Subject: RE: Lehigh samples 2/27-28

Hi, Robbie. Could you send us the Work Order Summaries for Lehigh samples collected 2/27 and 2/28 as discussed in the emails below and shown on the 2 chains of custody attached, please?

Please cance hardness and salinity analyses for sample date 2/27-28 for Pond 9UP R-001B, Pond 9DN R-002B, Pond 17DN R-002D, Pond 20Dn/21. Sorry for the confusion.

Kimberly DeVillier | Geologist | Golder Associates Inc. 425 Lakeside Drive, Sunnyvale, California, USA 94085 T: +1 (408) 220-9223 | D: +1 (408) 220 9245 | F: +1 (408) 220-9224 | E: Kimberly\_DeVillier@golder.com | www.golder.com

Work Safe, Home Safe

----Original Message-----

From: Robbie Phillips (Alpha Labs) [mailto:robbie@alpha-labs.com]

Sent: Monday, March 03, 2014 9:20 AM

To: Walter, David (Sunnyvale)

Cc: Wegmann, George; DeVillier, Kimberly

Subject: Re: Today's samples

No problem. We'll take care of it.

Thanks for the update!

### Sean Foley@Alpha Labs

From: "DeVillier, Kimberly" <Kimberly\_DeVillier@golder.com>

To: "Robbie Phillips (Alpha Labs)" <robbie@alpha-labs.com>; "Sean Foley" <sfoley@alpha-labs.com>

Cc: "Wegmann, George" <George\_Wegmann@golder.com>
Sent: Monday, March 17, 2014 10:07 AM

Sent: Monday, March 17, 2014 10:07 AM Attach: 14C0028 03 14 14 1610\_02.PDF Subject: RE: 14C0028/Revised Work Order

Hi, Robbie and Sean.

Regarding Lehigh Work Order 14C0028, last Friday, I accidentally asked you to cancel the TDS and CI analyses for "Pond 20 DN/21". If possible, please run these analyses even if they are past hold time. Everything else on the work order summary looks right. Thanks.

Kimberly DeVillier | Geologist | Golder Associates Inc.

425 Lakeside Drive, Sunnyvale, California, USA 94085

T: +1 (408) 220-9223 | D: +1 (408) 220 9245 | F: +1 (408) 220-9224 | E: <u>Kimberly\_DeVillier@golder.com</u> | www.golder.com

#### Work Safe, Home Safe

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Please consider the environment before printing this email.

From: Robbie Phillips (Alpha Labs) [mailto:robbie@alpha-labs.com]

**Sent:** Friday, March 14, 2014 3:54 PM **To:** DeVillier, Kimberly; Sean Foley

Subject: Re: 14C0028/Revised Work Order

Hello Kimberly,

Sean Foley is going to call you now and work through the changes verbally so we get you exactly what is needed, He'll be in touch in a few minutes.

Thanks.

Robbie



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

25 March 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14C0548

Enclosed are the results of analyses for samples received by the laboratory on 03/06/14 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Reported: 03/25/14 13:13

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914 (Weekly)

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	14C0548-01	Water	03/06/14 12:20	03/06/14 21:45
Pond 4 DN R-002A	14C0548-02	Water	03/06/14 13:30	03/06/14 21:45
Field Blank	14C0548-03	Water	03/06/14 12:50	03/06/14 21:45
Pond 9 EFF M-002	14C0548-04	Water	03/06/14 11:45	03/06/14 21:45
Pond 9 UP R-001B	14C0548-05	Water	03/06/14 11:55	03/06/14 21:45
Pond 9 DN R-002B	14C0548-06	Water	03/06/14 12:00	03/06/14 21:45
Pond 17 EFF M-004	14C0548-07	Water	03/06/14 13:55	03/06/14 21:45
Pond 17 DN R-002D	14C0548-08	Water	03/06/14 14:05	03/06/14 21:45



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 (Weekly) Reported: 03/25/14 13:13

### Metals by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL F	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes		
Pond 4A EFF M-001 (14C0548-01) Water Sampled: 03/06/14 12:20 Received: 03/06/14 21:45												
Chromium, hexavalent	ND	0.0050	0.010	mg/l	1	AC41066	03/10/14 14:00	03/10/14 16:28	SM3500-Cr B	U		
Mercury	1.30	0.200	0.500	ng/l	"	AC41936	03/21/14 10:00	03/21/14 16:01	EPA 1631E			
Pond 4 DN R-002A (14C0548-02) Water	Sampled: (	03/06/14 13:30	Receive	ed: 03/06/	14 21:45							
Pond 4 DN R-002A (14C0548-02) Water Chromium, hexavalent	Sampled: 0	0.0050	0.010	mg/l	14 21:45	AC41066	03/10/14 14:00	03/10/14 16:28	SM3500-Cr B	U		
					14 21:45 1 "	AC41066 AC41936	03/10/14 14:00 03/21/14 10:00	03/10/14 16:28 03/21/14 16:09	SM3500-Cr B EPA 1631E	U		
Chromium, hexavalent Mercury	ND 1.82	0.0050	0.010 0.500	mg/l ng/l	1 "					U		



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914 (Weekly)

Reported: 03/25/14 13:13

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

		Re	porting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4A EFF M-001 (14C0548-01) Water	r Sampled:	: 03/06/14 12:20	) Receiv	ved: 03/06	6/14 21:45					
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	1	AC41218	03/12/14 10:45	03/17/14 15:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AC41042	03/07/14 13:00	03/07/14 17:00	SM2540F	U
Pond 4 DN R-002A (14C0548-02) Water	Sampled: (	03/06/14 13:30	Receive	ed: 03/06/1	14 21:45					
<b>Total Dissolved Solids</b>	1100	5.0	10	mg/l	1	AC41218	03/12/14 10:45	03/17/14 15:00	SM2540C	
Pond 9 EFF M-002 (14C0548-04) Water	Sampled: 0	03/06/14 11:45	Receive	d: 03/06/1	14 21:45					
<b>Total Dissolved Solids</b>	930	5.0	10	mg/l	1	AC41218	03/12/14 10:45	03/17/14 15:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AC41042	03/07/14 13:00	03/07/14 17:00	SM2540F	Ţ
Pond 9 UP R-001B (14C0548-05) Water	Sampled: 0	3/06/14 11:55	Receive	d: 03/06/1	4 21:45					
<b>Total Dissolved Solids</b>	1100	5.0	10	mg/l	1	AC41218	03/12/14 10:45	03/17/14 15:00	SM2540C	
Pond 9 DN R-002B (14C0548-06) Water	Sampled: 0	03/06/14 12:00	Receive	ed: 03/06/1	14 21:45					
<b>Total Dissolved Solids</b>	1100	5.0	10	mg/l	1	AC41218	03/12/14 10:45	03/17/14 15:00	SM2540C	
Pond 17 EFF M-004 (14C0548-07) Water	Sampled:	03/06/14 13:55	Receiv	ed: 03/06	/14 21:45					
<b>Total Dissolved Solids</b>	1500	5.0	10	mg/l	1	AC41218	03/12/14 10:45	03/17/14 15:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AC41042	03/07/14 13:00	03/07/14 17:00	SM2540F	U
Pond 17 DN R-002D (14C0548-08) Water	Sampled:	03/06/14 14:05	Receiv	ed: 03/06	/14 21:45					
<b>Total Dissolved Solids</b>	1100	5.0	10	mg/l	1	AC41218	03/12/14 10:45	03/17/14 15:00	SM2540C	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 (Weekly) Reported: 03/25/14 13:13

## Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

		Re	porting	•	•					
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4A EFF M-001 (14C0548-01) Water	Sampled: (	03/06/14 12:20	) Receiv	ed: 03/06/	14 21:45					
Chloride	13	0.75	12	mg/l	25	AC40832	03/08/14 10:26	03/09/14 07:18	EPA 300.0	
Pond 4 DN R-002A (14C0548-02) Water	Sampled: 03	6/06/14 13:30	Receive	d: 03/06/1	4 21:45					
Chloride	15	0.75	12	mg/l	25	AC40832	03/08/14 10:26	03/09/14 07:33	EPA 300.0	
Pond 9 EFF M-002 (14C0548-04) Water	Sampled: 03	/06/14 11:45	Receive	d: 03/06/1	4 21:45					
Chloride	110	0.75	12	mg/l	25	AC40832	03/08/14 10:26	03/09/14 07:48	EPA 300.0	
Pond 9 UP R-001B (14C0548-05) Water	Sampled: 03	/06/14 11:55	Received	d: 03/06/14	1 21:45					
Chloride	30	0.75	12	mg/l	25	AC40832	03/08/14 10:26	03/09/14 08:03	EPA 300.0	
Pond 9 DN R-002B (14C0548-06) Water	Sampled: 03	/06/14 12:00	Receive	d: 03/06/1	4 21:45					
Chloride	35	0.75	12	mg/l	25	AC40832	03/08/14 10:26	03/09/14 08:18	EPA 300.0	
Pond 17 EFF M-004 (14C0548-07) Water	Sampled: 0	3/06/14 13:55	Receiv	ed: 03/06/	14 21:45					
Chloride	130	1.5	25	mg/l	50	AC40832	03/08/14 10:26	03/09/14 08:33	EPA 300.0	
Pond 17 DN R-002D (14C0548-08) Water	Sampled: 0	3/06/14 14:05	Receiv	ed: 03/06/	14 21:45					
Chloride	39	0.75	12	mg/l	25	AC40832	03/08/14 10:26	03/09/14 08:48	EPA 300.0	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit Project Number: 063-7109-914 (Weekly)

Reported: 03/25/14 13:13

### Metals by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC41066 - SM3500 Cr6 Water											
Blank (AC41066-BLK1)					Prepared &	: Analyzed:	03/10/14				
Chromium, hexavalent	ND	0.0050	0.010	mg/l							U
LCS (AC41066-BS1)					Prepared &	Analyzed:	03/10/14				
Chromium, hexavalent	0.106	0.0050	0.010	mg/l	0.100		106	80-120			
Duplicate (AC41066-DUP1)		Source:	14C0328-01		Prepared &	Analyzed:	03/10/14				
Chromium, hexavalent	ND	0.0050	0.010	mg/l		ND				20	U
Matrix Spike (AC41066-MS1)		Source:	14C0328-01		Prepared &	: Analyzed:	03/10/14				
Chromium, hexavalent	0.0961	0.0050	0.010	mg/l	0.100	ND	96.1	0-200			
Matrix Spike (AC41066-MS2)		Source:	14B1731-01		Prepared &	Analyzed:	03/10/14				
Chromium, hexavalent	0.0886	0.0050	0.010	mg/l	0.100	ND	88.6	0-200			
Matrix Spike Dup (AC41066-MSD1)		Source:	14C0328-01		Prepared &	: Analyzed:	03/10/14				
Chromium, hexavalent	0.0950	0.0050	0.010	mg/l	0.100	ND	95.0	0-200	1.12	20	
Batch AC41936 - EPA 1631											
Blank (AC41936-BLK1)					Prepared &	: Analyzed:	03/21/14				
Mercury	ND	0.200	0.500	ng/l							U
Mercury	ND	0.200	0.500	"							U
LCS (AC41936-BS1)					Prepared &	Analyzed:	03/21/14				
Mercury	4.43	0.200	0.500	ng/l	5.00		88.5	77-123			
Matrix Spike (AC41936-MS1)		Source:	14C0523-01		Prepared &	Analyzed:	03/21/14				
Mercury	24.0	0.200	0.500	ng/l	25.0	0.856	92.4	71-125			



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914 (Weekly)

Reported: 03/25/14 13:13

### Metals by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch AC41936 - EPA 1631

Matrix Spike Dup (AC41936-MSD1)	Source: 14C0523-01			Prepared &	Analyzed:	03/21/14					
Mercury	23.7	0.200	0.500	ng/l	25.0	0.856	91.3	71-125	1.22	24	



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%REC

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Reporting

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Spike

Source

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914 (Weekly)

Reported: 03/25/14 13:13

RPD

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

					~ P	~ ~ ~ ~ ~ ~ ~		,			
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC41218 - General Preparation											
Blank (AC41218-BLK1)					Prepared: (	03/12/14 A	nalyzed: 03	/17/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AC41218-DUP1)		Source: 14	C0548-01	-	Prepared: (	03/12/14 A	nalyzed: 03	/17/14			
Total Dissolved Solids	996	5.0	10	mg/l		1020			2.38	30	
<b>Duplicate (AC41218-DUP2)</b>		Source: 14	C0548-02	!	Prepared: (	03/12/14 A	nalyzed: 03	/17/14			
Total Dissolved Solids	1010	5.0	10	mg/l		1050			4.27	30	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit Project Number: 063-7109-914 (Weekly)

Reported: 03/25/14 13:13

### Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC40832 - General Preparation	n										
Blank (AC40832-BLK1)					Prepared: (	03/08/14 A	nalyzed: 03	/09/14			
Chloride	ND	0.030	0.50	mg/l							U
LCS (AC40832-BS1)					Prepared: (	03/08/14 A	nalyzed: 03	/09/14			
Chloride	11.5	0.030	0.50	mg/l	11.1		104	90-110			
Duplicate (AC40832-DUP1)		Source: 14	C0256-01		Prepared: (	03/08/14 A	nalyzed: 03	/09/14			
Chloride	0.225	0.030	0.50	mg/l		0.227			0.885	20	J
Matrix Spike (AC40832-MS1)		Source: 14	C0256-01		Prepared: (	03/08/14 A	nalyzed: 03	/09/14			
Chloride	11.4	0.030	0.50	mg/l	11.1	0.227	101	80-120			
Matrix Spike Dup (AC40832-MSD1)		Source: 14	C0256-01		Prepared: (	03/08/14 A	nalyzed: 03	/09/14			
Chloride	11.5	0.030	0.50	mg/l	11.1	0.227	101	80-120	0.603	20	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 (Weekly) Reported: 03/25/14 13:13

#### **Notes and Definitions**

J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference



April 11, 2014

Alpha Analytical Laboratories Inc. ATTN: Robbie Phillips 208 Mason St. Ukiah, CA 95482 robbie@alpha-labs.com

RE: Project AAL-DB1301 Client Project: 14C0548

Dear Mr. Phillips,

On March 11, 2014, Brooks Rand Labs (BRL) received three (3) water samples. The samples were logged-in for the contracted analyses of total silver (Ag), arsenic (As), beryllium (Be), cadmium (Cd), chromium (Cr), copper (Cu), nickel (Ni), lead (Pb), antimony (Sb), selenium (Se), thallium (TI), and zinc (Zn) according to the chain-of-custody (COC) forms. Samples for dissolved analyses were field filtered. The samples were received, prepared, analyzed, and stored according to BRL SOPs and EPA methodology.

The results were blank-corrected as described in the calculations section of the relevant SOP(s) and may have been evaluated using reporting limits that have been adjusted to account for sample aliquot size. Please refer to the Sample Results page for sample-specific MDLs, MRLs, and other details.

In instances where the native sample result and/or the associated duplicate (DUP) result were below the MDL the RPD was not calculated (N/C).

When the spiking levels of the matrix spikes were ≤ 25% of the native sample concentrations, the recoveries were not reported (NR).

The sample 14C0548-03 Field Blank (1411012-13) was labeled as a field blank and had Cr, Cu, Pb, and Zn concentrations above the MRL. The Cr, Cu, Pb, and Zn results for the samples may demonstrate possible contamination through field sample collection techniques employed.

Aside from concentration qualifiers, all data was reported without qualification and all other associated quality control sample results met the acceptance criteria.

BRL, an accredited laboratory, certifies that the reported results of all analyses for which BRL is NELAP accredited meet all NELAP requirements. For more information please see the Report Information page in your report. Please feel free to contact us if you have any questions regarding this report.

Sincerely.

Lydia Greaves **Project Manager** 

lydia@brooksrand.com



BRL Report 1411012
Client PM: Robbie Phillips
Client PO: 130903RP-1

### **Report Information**

#### **Laboratory Accreditation**

BRL is accredited by the *National Environmental Laboratory Accreditation Program* (NELAP) through the State of Florida Department of Health, Bureau of Laboratories (E87982) and is certified to perform many environmental analyses. BRL is also certified by many other states to perform environmental analyses. For a current list of our accreditations/certifications, please visit our website at <a href="http://www.brooksrand.com/default.asp?contentID=586">http://www.brooksrand.com/default.asp?contentID=586</a>. Results reported relate only to the samples listed in the report.

### **Field Quality Control Samples**

Please be notified that certain EPA methods require the collection of field quality control samples of an appropriate type and frequency; failure to do so is considered a deviation from some methods and for compliance purposes should only be done with the approval of regulatory authorities. Please see the specific EPA methods for details regarding required field quality control samples.

#### **Common Abbreviations**

BLK	method blank	MS	matrix spike
BRL	Brooks Rand Labs	MSD	matrix spike duplicate
BS	laboratory fortified blank	ND	non-detect
CAL	calibration standard	NR	non-reportable
CCV	continuing calibration verification	PS	post preparation spike
COC	chain of custody record	REC	percent recovery
CRM	certified reference material	RPD	relative percent difference
D	dissolved fraction	RSD	relative standard deviation
DUP	duplicate	SCV	secondary calibration verification
ICV	initial calibration verification	SOP	standard operating procedure
MDL	method detection limit	SRM	standard reference material
MRL	method reporting limit	T	total recoverable fraction
IBL	instrument blank		

#### **Definition of Data Qualifiers**

(Effective 9/23/09)

- B Detected by the instrument, the result is > the MDL but ≤ the MRL. Result is reported and considered an estimate.
- E An estimated value due to the presence of interferences. A full explanation is presented in the narrative.
- **H** Holding time and/or preservation requirements not met. Result is estimated.
- **J** Estimated value. A full explanation is presented in the narrative.
- J-M Duplicate precision (RPD) for associated QC sample was not within acceptance criteria. Result is estimated.
- J-N Spike recovery for associated QC sample was not within acceptance criteria. Result is estimated.
- **M** Duplicate precision (RPD) was not within acceptance criteria. Result is estimated.
- N Spike recovery was not within acceptance criteria. Result is estimated.
- R Rejected, unusable value. A full explanation is presented in the narrative.
- **U** Result is ≤ the MDL or client requested reporting limit (CRRL). Result reported as the MDL or CRRL.
- X Result is not BLK-corrected and is within 10x the absolute value of the highest detectable BLK in the batch. Result is estimated.

These qualifiers are based on those previously utilized by Brooks Rand Labs, those found in the EPA <u>SOW ILM03.0</u>, Exhibit B, Section III, pg. B-18, and the <u>USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review; USEPA; January 2010. These supersede all previous qualifiers ever employed by BRL.</u>



BRL Report 1411012
Client PM: Robbie Phillips
Client PO: 130903RP-1

## Sample Information

Sample	Lab ID	Report Matrix	Type	Sampled	Received
14C0548-01 Pond 4A EFF M-001	1411012-01	Water	Sample	03/06/2014	03/11/2014
14C0548-02 Pond 4DN R-002A	1411012-02	Water	Sample	03/06/2014	03/11/2014
14C0548-03 Field Blank	1411012-03	DIW	Field Blank	03/06/2014	03/11/2014

## **Batch Summary**

Analyte	Lab Matrix	Method	<b>Prepared</b>	Analyzed	Batch	Sequence
Ag	Water	EPA 1638	03/14/2014	04/03/2014	B140563	1400285
As	Water	EPA 1638 DRC	03/14/2014	03/25/2014	B140421	1400245
Be	Water	EPA 1638	03/14/2014	04/03/2014	B140563	1400285
Cd	Water	EPA 1638	03/14/2014	04/03/2014	B140563	1400285
Cr	Water	EPA 1638 DRC	03/14/2014	03/20/2014	B140422	1400233
Cu	Water	EPA 1638	03/14/2014	04/03/2014	B140563	1400285
Ni	Water	EPA 1638 DRC	03/14/2014	03/28/2014	B140482	1400260
Pb	Water	EPA 1638	03/14/2014	04/03/2014	B140563	1400285
Sb	Water	EPA 1638	03/14/2014	04/03/2014	B140563	1400285
Se	Water	EPA 1638 DRC	03/14/2014	03/25/2014	B140421	1400245
TI	Water	EPA 1638	03/14/2014	04/03/2014	B140563	1400285
Zn	Water	EPA 1638	03/14/2014	04/03/2014	B140563	1400285



BRL Report 1411012
Client PM: Robbie Phillips
Client PO: 130903RP-1

## Sample Results

Sample	Analyte	Report Matrix	Basis	Result	Qualifie	r MDL	MRL	Unit	Batch	Sequence
14C0548-01	Pond 4A EF	F M-001								
1411012-01	Ag	Water	Т	0.005	U	0.005	0.021	μg/L	B140563	1400285
1411012-01	As	Water	Т	1.63		0.009	0.032	μg/L	B140421	1400245
1411012-01	Be	Water	Τ	0.053	U	0.053	0.158	μg/L	B140563	1400285
1411012-01	Cd	Water	Τ	1.31		0.007	0.021	μg/L	B140563	1400285
1411012-01	Cr	Water	Τ	0.265		0.009	0.032	μg/L	B140422	1400233
1411012-01	Cu	Water	Τ	1.63		0.042	0.126	μg/L	B140563	1400285
1411012-01	Ni	Water	Т	59.4		0.053	0.211	μg/L	B140482	1400260
1411012-01	Pb	Water	Τ	0.047		0.006	0.026	μg/L	B140563	1400285
1411012-01	Sb	Water	Т	5.68		0.011	0.042	μg/L	B140563	1400285
1411012-01	Se	Water	Т	33.8		0.021	0.063	μg/L	B140421	1400245
1411012-01	TI	Water	Т	0.174		0.003	0.011	μg/L	B140563	1400285
1411012-01	Zn	Water	Т	56.8		0.06	0.21	μg/L	B140563	1400285
14C0548-02	Pond 4DN R	?-002A								
1411012-02	Ag	Water	Т	0.005	U	0.005	0.021	μg/L	B140563	1400285
1411012-02	As	Water	Т	0.521		0.009	0.032	μg/L	B140421	1400245
1411012-02	Be	Water	Т	0.053	U	0.053	0.158	μg/L	B140563	1400285
1411012-02	Cd	Water	Т	0.522		0.007	0.021	μg/L	B140563	1400285
1411012-02	Cr	Water	Т	0.262		0.009	0.032	μg/L	B140422	1400233
1411012-02	Cu	Water	Т	1.33		0.042	0.126	μg/L	B140563	1400285
1411012-02	Ni	Water	Т	17.1		0.053	0.211	μg/L	B140482	1400260
1411012-02	Pb	Water	Т	0.035		0.006	0.026	μg/L	B140563	1400285
1411012-02	Sb	Water	Т	3.11		0.011	0.042	μg/L	B140563	1400285
1411012-02	Se	Water	Т	44.2		0.021	0.063	μg/L	B140421	1400245
1411012-02	TI	Water	Τ	0.043		0.003	0.011	μg/L	B140563	1400285
1411012-02	Zn	Water	Т	2.60		0.06	0.21	μg/L	B140563	1400285
14C0548-03	Field Blank									
1411012-03	Ag	DIW	Т	0.005	U	0.005	0.021	μg/L	B140563	1400285
1411012-03	As	DIW	Т	0.009	U	0.009	0.032	μg/L	B140421	1400245
1411012-03	Be	DIW	Т	0.053	U	0.053	0.158	μg/L	B140563	1400285
1411012-03	Cd	DIW	Τ	0.007	U	0.007	0.021	μg/L	B140563	1400285
1411012-03	Cr	DIW	Т	0.053		0.009	0.032	μg/L	B140422	1400233
1411012-03	Cu	DIW	Т	0.462		0.042	0.126	μg/L	B140563	1400285
1411012-03	Ni	DIW	Τ	0.053	U	0.053	0.211	μg/L	B140482	1400260
1411012-03	Pb	DIW	Τ	0.154		0.006	0.026	μg/L	B140563	1400285
1411012-03	Sb	DIW	Т	0.011	U	0.011	0.042	μg/L	B140563	1400285
1411012-03	Se	DIW	Т	0.021	U	0.021	0.063	μg/L	B140421	1400245
1411012-03	TI	DIW	Т	0.003	U	0.003	0.011	μg/L	B140563	1400285
1411012-03	Zn	DIW	Т	0.50		0.06	0.21	μg/L	B140563	1400285



BRL Report 1411012
Client PM: Robbie Phillips
Client PO: 130903RP-1

## Accuracy & Precision Summary

Batch: B140421 Lab Matrix: Water Method: EPA 1638 DRC

Sample B140421-BS1	Analyte Laboratory Fortified Bl As Se	Native ank (14110	<b>Spike</b> <b>978)</b> 5.684 10.53	5.618 10.37	<b>Units</b> μg/L μg/L	99% 75-125 99% 75-125	RPD & Limits
B140421-SRM1	Certified Reference Ma	torial (132	3040 NIST	16436)			
D140421-OKWI1	As	teriai (152	60.45	60.55	μg/L	100% 75-125	
	Se		11.97	12.80	μg/L	107% 75-125	
B140421-DUP1	Duplicate (1411012-01)						
5140421 501 1	As	1.631		1.616	μg/L		0.9% 20
B140421-DUP4	Duplicate (1411012-01)						
	Se	33.84		34.59	μg/L		2% 20
B140421-MS1	Matrix Spike (1411012-	01)					
	As	1.631	5.263	7.013	μg/L	102% 75-125	
B140421-MS4	Matrix Spike (1411012-	01)					
	Se	33.84	52.63	79.46	μg/L	87% 75-125	
B140421-MSD1	Matrix Spike Duplicate	(1411012-	01)				
	As	1.631	5.263	7.020	μg/L	102% 75-125	0.1% 20
B140421-MSD4	Matrix Spike Duplicate	(1411012-	01)				
	Se	33.84	52.63	79.27	μg/L	86% 75-125	0.2% 20



BRL Report 1411012
Client PM: Robbie Phillips
Client PO: 130903RP-1

## Accuracy & Precision Summary

Batch: B140422 Lab Matrix: Water Method: EPA 1638 DRC

Sample B140422-BS1	Analyte Laboratory Fortified Bla	Native	Spike	Result	Units	REC & Limits	RPD & Limits
	Cr	( )	3.162	3.174	μg/L	100% 75-125	
B140422-SRM1	Certified Reference Mat	erial (132	3040. NIST	1643e)			
	Cr	(	20.40	20.21	μg/L	99% 75-125	
B140422-SRM2	Certified Reference Mat	erial (135					
	Cr		50.00	49.49	μg/L	99% 0-200	
B140422-DUP1	Duplicate (1411012-01)						
	Cr	0.265		0.252	μg/L		5% 20
B140422-MS1	Matrix Spike (1411012-0	)1)					
	Ċr `	0.265	105.4	98.70	μg/L	93% 75-125	
B140422-MSD1	Matrix Spike Duplicate	(1411012-	01)				
	Cr	0.265	105.4	99.82	μg/L	94% 75-125	1% 20



BRL Report 1411012
Client PM: Robbie Phillips
Client PO: 130903RP-1

## Accuracy & Precision Summary

Batch: B140482 Lab Matrix: Water Method: EPA 1638 DRC

Sample B140482-BS1	Analyte Laboratory Fortified Bla		Spike	Result	Units	REC & Limits	RPD & Limits
B140402 B01	Ni Ni	ank (14110	4.211	4.204	μg/L	100% 75-125	
B140482-SRM1	Certified Reference Mat	terial (1323					
	Ni		62.41	59.82	μg/L	96% 75-125	
B140482-DUP1	Duplicate (1411012-01)						
	Ni	59.39		60.17	μg/L		1% 20
B140482-MS1	Matrix Spike (1411012-0	01)					
	Ni	59.39	526.3	543.2	μg/L	92% 75-125	
B140482-MSD1	Matrix Spike Duplicate	(1411012-0	01)				
	Ni	59.39	526.3	541.5	μg/L	92% 75-125	0.3% 20



BRL Report 1411012
Client PM: Robbie Phillips
Client PO: 130903RP-1

## Accuracy & Precision Summary

Batch: B140563 Lab Matrix: Water Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B140563-BS1	Laboratory Fortified	Blank (1411		0.450	- /1	4000/ 75 405	
	Ag		0.4211	0.459	μg/L	109% 75-125	
	Be		3.158	3.213	μg/L	102% 75-125	
	Cd		0.4211	0.424	μg/L	101% 75-125	
	Cu		2.526	2.562	μg/L	101% 75-125	
	Pb		0.5259	0.547	μg/L	104% 75-125	
	Sb		0.4211	0.416	μg/L	99% 75-125	
	TI		0.2105	0.219	μg/L	104% 75-125	
	Zn		4.211	4.20	μg/L	100% 75-125	
B140563-SRM1	Certified Reference N	Natorial (14	14026 NIST	T 1640a)			
B140000 OKMIT	Ag	natoriai (14	8.081	8.334	μg/L	103% 75-125	
	Be		3.026	2.841	μg/L	94% 75-125	
	Cd		3.992	3.878	μg/L	97% 75-125	
	Cu		85.75	84.24	μg/L	98% 75-125	
	Pb		12.10	12.13	μg/L	100% 75-125	
	Sb		5.105	4.949	μg/L	97% 75-125	
	TI		1.619	1.637	μg/L	101% 75-125	
	Zn		55.64	55.21	μg/L	99% 75-125	
	<del>_</del>		33.3		r-3' -	0070 10 120	
B140563-DUP1	Duplicate (1411012-0				,,		N/O 00
	Ag	ND		ND	μg/L		N/C 20
	Be	ND		ND	μg/L		N/C 20
	Cd	1.308		1.330	μg/L		2% 20
	Cu	1.632		1.591	μg/L		3% 20
	Pb	0.047		0.043	μg/L		10% 20
	Sb	5.683		5.652	μg/L		0.5% 20
	TI	0.174		0.171	μg/L		2% 20
	Zn	56.80		57.93	μg/L		2% 20



BRL Report 1411012
Client PM: Robbie Phillips
Client PO: 130903RP-1

## Accuracy & Precision Summary

Batch: B140563 Lab Matrix: Water Method: EPA 1638

Sample	Analyte	Native	Spike	Result	Units	REC & Limits	RPD & Limits
B140563-MS1	Matrix Spike (1411		Opike	Nesuit	Offics	NEC & Ellillis	IXI D & LIIIII.3
D140000 IIIO1	Ag	ND	0.4211	0.352	μg/L	83% 75-125	
	Be	ND	0.2105	0.179	μg/L	85% 75-125	
	Cd	1.308	0.2105	1.529	μg/L	NR 75-125	
	Cu	1.632	2.105	3.511	μg/L	89% 75-125	
	Pb	0.047	0.5259	0.505	μg/L	87% 75-125	
	Sb	5.683	0.2105	5.841	μg/L	NR 75-125	
	TI	0.174	0.1053	0.263	μg/L	85% 75-125	
	Zn	56.80	10.53	65.88	μg/L	NR 75-125	
		00.00	10.00	00.00	M 9' =	10 120	
B140563-MSD1	Matrix Spike Dupli	cate (1411012					
	Ag	ND	0.4211	0.337	μg/L	80% 75-125	4% 20
	Be	ND	0.2105	0.184	μg/L	88% 75-125	3% 20
	Cd	1.308	0.2105	1.561	μg/L	NR 75-125	2% 20
	Cu	1.632	2.105	3.530	μg/L	90% 75-125	0.6% 20
	Pb	0.047	0.5259	0.501	μg/L	86% 75-125	0.7% 20
	Sb	5.683	0.2105	5.882	μg/L	NR 75-125	0.7% 20
	TI	0.174	0.1053	0.257	μg/L	79% 75-125	2% 20
	Zn	56.80	10.53	66.28	μg/L	NR 75-125	0.6% 20
					. •		



BRL Report 1411012
Client PM: Robbie Phillips
Client PO: 130903RP-1

### Method Blanks & Reporting Limits

Batch: B140421 Matrix: Water

Method: EPA 1638 DRC

Analyte: As 91

Sample	Result	Units
B140421-BLK1	0.005	μg/L
B140421-BLK2	0.005	μg/L
B140421-BLK3	0.003	μg/L
B140421-BLK4	0.002	μg/L

 Average: 0.004
 Standard Deviation: 0.002
 MDL: 0.009

 Limit: 0.032
 Limit: 0.009
 MRL: 0.032

Analyte: Se 78

Sample	Result	Units
B140421-BLK1	0.012	μg/L
B140421-BLK2	0.017	μg/L
B140421-BLK3	0.003	μg/L
B140421-BLK4	0.003	ua/l

 Average: 0.009
 Standard Deviation: 0.007
 MDL: 0.021

 Limit: 0.063
 Limit: 0.021
 MRL: 0.063



BRL Report 1411012 Client PM: Robbie Phillips Client PO: 130903RP-1

### Method Blanks & Reporting Limits

**Batch:** B140422 Matrix: Water

Method: EPA 1638 DRC

Analyte: Cr 52

Sample	Result	Units
B140422-BLK1	0.002	μg/L
B140422-BLK2	0.001	μg/L
B140422-BLK3	0.001	μg/L
B140422-BLK4	0.002	μg/L

**Standard Deviation:** 0.001 Average: 0.002 **MDL**: 0.009

**Limit:** 0.032 **Limit:** 0.009 **MRL:** 0.032



BRL Report 1411012 Client PM: Robbie Phillips Client PO: 130903RP-1

### Method Blanks & Reporting Limits

**Batch:** B140482 Matrix: Water

Method: EPA 1638 DRC

Analyte: Ni 62

Sample	Result	Units
B140482-BLK1	0.003	μg/L
B140482-BLK2	-0.003	μg/L
B140482-BLK3	-0.003	μg/L
B140482-BLK4	0.002	μg/L

**Standard Deviation: 0.003** Average: 0.000 **MDL:** 0.053



BRL Report 1411012 Client PM: Robbie Phillips Client PO: 130903RP-1

### Method Blanks & Reporting Limits

Batch: B140563 Matrix: Water Method: EPA 1638 Analyte: Ag 107

 Sample
 Result
 Units

 B140563-BLK1
 -0.0006
 μg/L

 B140563-BLK2
 -0.0007
 μg/L

 B140563-BLK3
 -0.0008
 μg/L

 B140563-BLK4
 -0.001
 μg/L

Average: -0.001 Standard Deviation: 0.000 MDL: 0.005 Limit: 0.021 Limit: 0.005 MRL: 0.021

Analyte: Be

 Sample
 Result
 Units

 B140563-BLK1
 -0.013
 μg/L

 B140563-BLK2
 -0.011
 μg/L

 B140563-BLK3
 -0.010
 μg/L

 B140563-BLK4
 -0.013
 μg/L

Average: -0.012 Standard Deviation: 0.002 MDL: 0.053 Limit: 0.158 Limit: 0.053 MRL: 0.158

Analyte: Cd 114

 Sample
 Result
 Units

 B140563-BLK1
 -0.0002
 μg/L

 B140563-BLK2
 -0.0008
 μg/L

 B140563-BLK3
 -0.0001
 μg/L

 B140563-BLK4
 0.00001
 μg/L

 Average: 0.000
 Standard Deviation: 0.000
 MDL: 0.007

 Limit: 0.021
 Limit: 0.007
 MRL: 0.021



BRL Report 1411012 Client PM: Robbie Phillips Client PO: 130903RP-1

### Method Blanks & Reporting Limits

Analyte: Cu 63

Sample	Result	Units
B140563-BLK1	-0.012	μg/L
B140563-BLK2	-0.012	μg/L
B140563-BLK3	-0.012	μg/L
B140563-BLK4	-0.013	ua/l

Average: -0.012 Standard Deviation: 0.001 MDL: 0.042 Limit: 0.126 MRL: 0.126

Analyte: Pb

 Sample
 Result
 Units

 B140563-BLK1
 -0.001
 μg/L

 B140563-BLK2
 -0.001
 μg/L

 B140563-BLK3
 -0.001
 μg/L

 B140563-BLK4
 -0.001
 μg/L

Average: -0.001 Standard Deviation: 0.000 MDL: 0.006 Limit: 0.026 Limit: 0.006 MRL: 0.026

Analyte: Sb

 Sample
 Result
 Units

 B140563-BLK1
 -0.00007
 μg/L

 B140563-BLK2
 -0.0001
 μg/L

 B140563-BLK3
 0.0002
 μg/L

 B140563-BLK4
 -0.0003
 μg/L

 Average: 0.000
 Standard Deviation: 0.000
 MDL: 0.011

 Limit: 0.042
 Limit: 0.011
 MRL: 0.042

Analyte: TI

 Sample
 Result
 Units

 B140563-BLK1
 -0.0009
 μg/L

 B140563-BLK2
 -0.001
 μg/L

 B140563-BLK3
 -0.0009
 μg/L

 B140563-BLK4
 -0.0008
 μg/L

 Average: -0.001
 Standard Deviation: 0.000
 MDL: 0.003

 Limit: 0.011
 Limit: 0.003
 MRL: 0.011



BRL Report 1411012 Client PM: Robbie Phillips Client PO: 130903RP-1

### Method Blanks & Reporting Limits

Analyte: Zn 66

Sample	Result	Units
B140563-BLK1	0.001	μg/L
B140563-BLK2	-0.003	μg/L
B140563-BLK3	-0.003	μg/L
B140563-BLK4	-0.003	μg/L

Average: 0.00 **Standard Deviation:** 0.00 **MDL**: 0.06 **Limit:** 0.21

**Limit:** 0.06 **MRL:** 0.21



BRL Report 1411012 **Client PM:** Robbie Phillips Client PO: 130903RP-1

### Sample Containers

Report Matrix: Water Lab ID: 1411012-01 Collected: 03/06/2014 Sample: 14C0548-01 Pond 4A EFF M-001 Sample Type: Sample **Received:** 03/11/2014 **Des Container** Size Preservation P-Lot рH Ship. Cont. Lot Client-Provided 500mL NOT 0.1% HNO3 (BRL) 1350086 <2 Cooler

> **PROVIDE** D

**Lab ID:** 1411012-02 Report Matrix: Water Collected: 03/06/2014 Sample: 14C0548-02 Pond 4DN R-002A Received: 03/11/2014 Sample Type: Sample

**Des Container Preservation** Ship. Cont. Size Lot P-Lot Hq Client-Provided 500mL NOT 1350086 0.1% HNO3 (BRL) <2 Cooler

**PROVIDE** D

Lab ID: 1411012-03 Report Matrix: DIW Collected: 03/06/2014 Sample: 14C0548-03 Field Blank Received: 03/11/2014 Sample Type: Field Blank

**Des Container** Size Lot Preservation P-Lot рH Ship. Cont. Client-Provided 500mL NOT 0.1% HNO3 (BRL) 1350086 Cooler

> **PROVIDE** D

### **Shipping Containers**

Cooler

Received: March 11, 2014 9:10 **Description:** Cooler Custody seals present? Yes Tracking No: 1z8942500146980933 via UPS Damaged in transit? No Custody seals intact? Yes

Returned to client? No **COC present?** Yes

Coolant Type: Blue Ice Temperature: -0.5 °C

### SUBCONTRACT ORDER

### Alpha Analytical Laboratories, Inc. 14C0548

4 110 2 BRL Report 1411012

#### SENDING LABORATORY:

Alpha Analytical Laboratories, Inc.

Robbie C. Phillips

208 Mason St. Ukiah, CA 95482 Phone: (707)468-0401

Fax: (707)468-5267

Project Manager:

RECEIVING LABORATORY:

Brooks Rand Labs, LLC 3958 6th Avenue NW Seattle, WA 98107 Phone: (206) 632-6206

Fax: (206) 632-6017

Terms: Net 30

Analysis	Due	Expires	Comments	
14C0548-01 Pond 4A E	FF M-001 [Water]	Sampled 03/06/14 12:20 Pacific		
1638 Sb Total ICPMS	03/24/14 12:00	09/02/14 12:20		
1638 Ag Total ICPMS	03/24/14 12:00	09/02/14 12:20		
1638 Zn Total ICPMS	03/24/14 12:00	09/02/14 12:20		
1638 Se Total ICPMS	03/24/14 12:00	09/02/14 12:20		
1638 Pb Total ICPMS	03/24/14 12:00	09/02/14 12:20		
1638 Ni Total ICPMS	03/24/14 12:00	09/02/14 12:20		
1638 Cu Total ICPMS	03/24/14 12:00	09/02/14 12:20		
1638 Cr Total ICPMS	03/24/14 12:00	09/02/14 12:20		
1638 Cd Total ICPMS	03/24/14 12:00	09/02/14 12:20		
1638 Be Total ICPMS	03/24/14 12:00	09/02/14 12:20		
1638 As Total ICPMS	03/24/14 12:00	09/02/14 12:20		
1638 Tl Total ICPMS	03/24/14 12:00	09/02/14 12:20		
Containers Supplied:			•	
500ml Glass - Unpreser 14C0548-02 Pond 4 DN		Sampled 03/06/14 13:30 Pacific		
1638 Ni Total ICPMS	03/24/14 12:00	09/02/14 13:30		
1638 Cu Total ICPMS	03/24/14 12:00	09/02/14 13:30		
1638 Ag Total ICPMS	03/24/14 12:00	09/02/14 13:30		
1638 As Total ICPMS	03/24/14 12:00	09/02/14 13:30		
1638 Be Total ICPMS	03/24/14 12:00	09/02/14 13:30		
1638 Cd Total ICPMS	03/24/14 12:00	09/02/14 13:30		
1638 Pb Total ICPMS	03/24/14 12:00	09/02/14 13:30		

1638 Sb Total ICPMS

1638 Se Total ICPMS

1638 Tl Total ICPMS

1638 Zn Total ICPMS

1638 Cr Total ICPMS Containers Supplied: 500ml Glass - Unpreserve

Date

03/24/14 12:00

03/24/14 12:00

03/24/14 12:00

03/24/14 12:00

03/24/14 12:00

3/11/14 0910

Released By

Received By

Date

09/02/14 13:30

09/02/14 13:30

09/02/14 13:30

09/02/14 13:30

09/02/14 13:30

#### SUBCONTRACT ORDER

### Alpha Analytical Laboratories, Inc.

# 1411012 BRL Report 1411012

### 14C0548

Analysis	Due	Expires	Comments	
14C0548-03 Field Blan	k [Water] Sampled	03/06/14 12:50 Pacific		
1638 Be Total ICPMS	03/24/14 12:00	09/02/14 12:50		
1638 Tl Total ICPMS	03/24/14 12:00	09/02/14 12:50		
1638 Se Total ICPMS	03/24/14 12:00	09/02/14 12:50		
1638 Sb Total ICPMS	03/24/14 12:00	09/02/14 12:50		
1638 Pb Total ICPMS	03/24/14 12:00	09/02/14 12:50		
1638 Ni Total ICPMS	03/24/14 12:00	09/02/14 12:50		
1638 Cu Total ICPMS	03/24/14 12:00	09/02/14 12:50	•	
1638 Cd Total ICPMS	03/24/14 12:00	09/02/14 12:50		
1638 Zn Total ICPMS	03/24/14 12:00	09/02/14 12:50		
1638 As Total ICPMS	03/24/14 12:00	09/02/14 12:50		
1638 Ag Total ICPMS	03/24/14 12:00	09/02/14 12:50		
1638 Cr Total ICPMS	03/24/14 12:00	09/02/14 12:50		
Containers Supplied:				
500ml Glass - Unpreser	Ve			
☐ Report to State	,		,	
System Name:		Employed by:		
User ID:		Sampler:		
		•		
System Number:	_/			
	/			
		100		

Released By

3-6-14

Date

M/L Received By 3/11/14 0910

Date

Released By

Received By

18 of 18

Date

Golder Associates

CHAIN OF CUSTODY Golder Associates

1400578

Quotation No B# Krass 4284

No Golder Associates Inc. 3 EDD required? EDF required? Chow Pip Remarks Yes Yes Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224 Cont. SEND RESULTS TO: 425 Lakeside Drive ANALYSES Xels 3/6/1 Distertime: 3/6/1/1 Date/Time: Container Info Type/Vol. Presery. (weekly) Lehish Stopermit Filter Baril Chate Depth SITE NAME: Matrix Standaro 000 Time 1300 345 135 1330 25 1155 Collection 3-6-14 Date CONTRACT LABORATORY: David Water Bond 17 Eff m-004 TURN-AROUND TIME: 063-7109-914 Rend (7DN R-000D Pord 904 R. 002B Lab CO Pand 9 48 R-001B Pood 9Eff M- DOS Pand MERRAM-001 Bud 401 Ar open PROJECT NO.: SAMPLER(S) Field Black Sample I.D.

yellow: project file



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

19 March 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14C0658

Enclosed are the results of analyses for samples received by the laboratory on 03/10/14 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 03/19/14 15:13

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Composite	14C0658-01	Water	03/07/14 12:15	03/10/14 21:40
Pond 9 Composite	14C0658-02	Water	03/07/14 11:25	03/10/14 21:40
Pond 17 Composite	14C0658-03	Water	03/07/14 11:45	03/10/14 21:40



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 03/19/14 15:13

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

		Re	porting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4A Composite (14C0658-01) Water	Sampled: 03	3/07/14 12:15	Receiv	ed: 03/10/	14 21:40					
<b>Total Suspended Solids</b>	1.5	0.30	0.50	mg/l	1	AC41333	03/13/14 16:00	03/17/14 15:30	SM2540D	
Pond 9 Composite (14C0658-02) Water	Sampled: 03/0	07/14 11:25	Received	l: 03/10/14	1 21:40					
<b>Total Suspended Solids</b>	6.6	0.30	0.50	mg/l	1	AC41333	03/13/14 16:00	03/17/14 15:30	SM2540D	
Pond 17 Composite (14C0658-03) Water	Sampled: 03	/07/14 11:45	Receive	d: 03/10/1	14 21:40					
<b>Total Suspended Solids</b>	80	0.30	0.50	mg/l	1	AC41333	03/13/14 16:00	03/17/14 15:30	SM2540D	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Reported: 03/19/14 15:13

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

	D. Iv	MDI	Reporting	TT	Spike	Source	0/DEC	%REC	DDD	RPD	N
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC41333 - General Preparation	1										
Blank (AC41333-BLK1)					Prepared: (	03/13/14 A	nalyzed: 03/	17/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AC41333-DUP1)		Source:	14C0622-01		Prepared: (	03/13/14 A	nalyzed: 03/	17/14			
Total Suspended Solids	180	0.30	0.50	mg/l		200			10.5	30	
Duplicate (AC41333-DUP2)		Source:	14C0689-01		Prepared: (	03/13/14 A	nalyzed: 03/	17/14			
Total Suspended Solids	227	0.30	0.50	mg/l		207			9.23	30	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 03/19/14 15:13

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Golder Associates

Golder Associates CHAIN OF CUSTODY

Quotation No Post 450, 550

PRUJECT NO.:		SITE NAME:	Composite	ANALYSES	400100 NO FOR 75005542 89
416-101) -COO		Lchigh S+6 permit	Pecni+		EDD required?
David Lya Ite	* 1	Barid Clut	7	57	Ves
CONTRACT LABORATORY: TURN-AROUND TIME:	RY: /	Alpha	Container Info	,	EDF required?
Sample	Collection		Type/Vol.	7	
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Brd 44 Composite 3-7-14 1215 W	3-7-14 121S	į		- any	Remarks
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	See Keen		. 0 2
	SEND RESULTS TO:	Golder Associates Inc. 425 Lakeside Drive	Phone (408) 220-9223 Fax (408) 220-9224 & O
! ! ": ! "!	1507	1730	B
	2/1/4	Date/Turke/	BAC-16
Received by Jacobine	14		(ACMIN)
Relinquished by: (signature)	Handle of Grand (Malle Mill)	Reinquished by (signature) DO Refer	while: lab copy yellow; project file



e-mail: clientservices@alpha-labs.com

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ELAP Certificate Numbers 1551 and 2728

27 March 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14C1051

Enclosed are the results of analyses for samples received by the laboratory on 03/13/14 22:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 03/27/14 10:06

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Eff M-001	14C1051-01	Water	03/13/14 14:00	03/13/14 22:10
Pond 4A DN R-002A	14C1051-02	Water	03/13/14 10:40	03/13/14 22:10
Pond 9 Eff M-002	14C1051-03	Water	03/13/14 11:00	03/13/14 22:10
Pond 9 UP R-001B	14C1051-04	Water	03/13/14 11:10	03/13/14 22:10
Pond 9 DN R-002B	14C1051-05	Water	03/13/14 11:15	03/13/14 22:10



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 03/27/14 10:06

# Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Ro MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4A Eff M-001 (14C1051-01) Water	Sampled: 0	3/13/14 14:00	Receive	d: 03/13/	14 22:10					
<b>Total Dissolved Solids</b>	970	5.0	10	mg/l	1	AC41950	03/19/14 15:00	03/24/14 12:15	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AC41741	03/14/14 14:00	03/14/14 17:00	SM2540F	U
Pond 4A DN R-002A (14C1051-02) Water	r Sampled:	03/13/14 10:4	0 Receiv	ed: 03/13	3/14 22:10					
<b>Total Dissolved Solids</b>	950	5.0	10	mg/l	1	AC41950	03/19/14 15:00	03/24/14 12:15	SM2540C	
Pond 9 Eff M-002 (14C1051-03) Water	Sampled: 03/	13/14 11:00	Received	: 03/13/14	4 22:10					
<b>Total Dissolved Solids</b>	1100	5.0	10	mg/l	1	AC41950	03/19/14 15:00	03/24/14 12:15	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AC41741	03/14/14 14:00	03/14/14 17:00	SM2540F	U
Pond 9 UP R-001B (14C1051-04) Water	Sampled: 03	3/13/14 11:10	Received	1: 03/13/1	14 22:10					
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	1	AC41950	03/19/14 15:00	03/24/14 12:15	SM2540C	
Pond 9 DN R-002B (14C1051-05) Water	Sampled: 03	3/13/14 11:15	Receive	d: 03/13/	14 22:10					
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	1	AC41950	03/19/14 15:00	03/24/14 12:15	SM2540C	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 03/27/14 10:06

# Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4A Eff M-001 (14C1051-01) Water	Sampled: 03/	/13/14 14:00	Receive	d: 03/13/	14 22:10					
Chloride	12	0.15	2.5	mg/l	5	AC42226	03/22/14 09:33	03/22/14 16:31	EPA 300.0	
Pond 4A DN R-002A (14C1051-02) Water	r Sampled: 0	3/13/14 10:4	) Receiv	ed: 03/13	3/14 22:10					
Chloride	13	0.15	2.5	mg/l	5	AC42226	03/22/14 09:33	03/22/14 16:46	EPA 300.0	
Pond 9 Eff M-002 (14C1051-03) Water	Sampled: 03/1.	3/14 11:00	Received:	03/13/14	22:10					
Chloride	94	0.75	12	mg/l	25	AC42226	03/22/14 09:33	03/22/14 17:01	EPA 300.0	
Pond 9 UP R-001B (14C1051-04) Water	Sampled: 03/	13/14 11:10	Received	l: 03/13/1	4 22:10					
Chloride	26	0.30	5.0	mg/l	10	AC42226	03/22/14 09:33	03/22/14 17:16	EPA 300.0	_
Pond 9 DN R-002B (14C1051-05) Water	Sampled: 03/	13/14 11:15	Received	l: 03/13/1	14 22:10					
Chloride	84	0.75	12	mg/l	25	AC42226	03/22/14 09:33	03/22/14 17:31	EPA 300.0	



e-mail: clientservices@alpha-labs.com

%REC

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Reporting

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 03/27/14 10:06

RPD

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Spike

Source

Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC41950 - General Preparation											
Blank (AC41950-BLK1)					Prepared: (	3/19/14 A	nalyzed: 03/	24/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AC41950-DUP1)		Source: 14	C0926-01		Prepared: (	03/19/14 A	nalyzed: 03/	24/14			
Total Dissolved Solids	680	5.0	10	mg/l		672			1.18	30	
Duplicate (AC41950-DUP2)		Source: 14	C0926-07		Prepared: (	03/19/14 A	nalyzed: 03/	24/14			
Total Dissolved Solids	676	5.0	10	mg/l		704			4.06	30	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Spiles

Reported: 03/27/14 10:06 Project Number: 063-7109-914

0/. DEC

DDD

# Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC42226 - General Preparation	n										
Blank (AC42226-BLK1)					Prepared &	Analyzed:	03/22/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AC42226-BS1)					Prepared &	Analyzed:	03/22/14				
Chloride	11.0	0.030	0.50	mg/l	11.1		99.2	90-110			
Duplicate (AC42226-DUP1)		Source: 1	4C0928-01	-	Prepared &	Analyzed:	03/22/14				
Chloride	19.1	0.030	0.50	mg/l		19.0			0.394	20	
Matrix Spike (AC42226-MS1)		Source: 1	4C0928-01		Prepared &	Analyzed:	03/22/14				
Chloride	29.0	0.15	2.5	mg/l	11.1	19.0	90.0	80-120			
Matrix Spike (AC42226-MS2)		Source: 1	4C1380-01	-	Prepared &	Analyzed:	03/22/14				
Chloride	63.6	0.15	2.5	mg/l	11.1	52.5	100	80-120			
Matrix Spike Dup (AC42226-MSD1)		Source: 1	4C0928-01	-	Prepared &	Analyzed:	03/22/14				
Chloride	29.2	0.15	2.5	mg/l	11.1	19.0	91.5	80-120	0.573	20	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 03/27/14 10:06

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

Golder Associates

Golder Associates CHAIN OF CUSTODY

Page of Ouotation No. Po # 450055 4249

1401051

3 SN. EDD required? EDF required? Remarks Yes Yes Cont. SEND RESULTS TO: ANALYSES 21 15 Container Info Type/Vol. Preserv. Lehigh StGpermit Weekly Filter David C. Walt Matrix Depth SITE NAME: Standard Time 0401 F13-14 1400 100 115 Collection Date CONTRACT LABORATORY: David Walter TURN-AROUND TIME: Pond 44 EAF M-001 Lab I.D. Pond 44 DN R-002A 200 9 4P R-0018 416-6011-690 and 9 Eff m-was BEOO-A NOF bros PROJECT NO .: SAMPLER(S): Sample I.D. nquished by

Chow Kigh!

Golder Associates Inc.

\$

425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224

Olec

28-14

3461

Sate/Time:



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

31 March 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14C1108

Enclosed are the results of analyses for samples received by the laboratory on 03/15/14 14:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 03/31/14 13:10

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Composite	14C1108-01	Water	03/14/14 10:40	03/15/14 14:30
Pond 9 Composite	14C1108-02	Water	03/14/14 11:20	03/15/14 14:30



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 03/31/14 13:10

Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4A Composite (14C1108-01) Water	Sampled: 03	3/14/14 10:40	Receive	ed: 03/15/	14 14:30					
<b>Total Suspended Solids</b>	3.6	0.30	0.50	mg/l	1	AC41861	03/19/14 10:00	03/19/14 15:30	SM2540D	
Pond 9 Composite (14C1108-02) Water	Sampled: 03/1	14/14 11:20	Received	l: 03/15/14	14:30					
<b>Total Suspended Solids</b>	25	0.30	0.50	mg/l	1	AC41861	03/19/14 10:00	03/19/14 15:30	SM2540D	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 03/31/14 13:10

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Attaryte	resuit	WIDE	Lillit	Omto	Level	resurt	/UKLC	Lillitis	Ki D	Limit	rvotes
<b>Batch AC41861 - General Preparation</b>											
Blank (AC41861-BLK1)					Prepared &	Analyzed:	03/19/14				
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AC41861-DUP1)		Source: 1	4C1108-02		Prepared &	Analyzed:	03/19/14				
Total Suspended Solids	20.0	0.30	0.50	mg/l		25.0			22.2	30	
Duplicate (AC41861-DUP2)		Source: 1	4C1179-01		Prepared &	Analyzed:	03/19/14				
Total Suspended Solids	13.7	0.30	0.50	mg/l		11.2			20.1	30	



e-mail: clientservices@alpha-labs.com

Reported:

03/31/14 13:10

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

14C1108

# CHAIN OF CUSTODY **Golder Associates**

Quotation No. Po # 4500554289 ō

Attn: Gcorge Wegmann, Greg Krapp,
Golder Associates Inc. Chow I'r
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224 3 No EDD required? EDF required? Remarks Yes Yes SEND RESULTS TO: Cont. ANALYSES DalaTime: A A A 551 7 Container Info Type/Vol. Composite Preserv. Filter Received by: (signature) Received by: (signature Depth SITE NAME: Matrix 3 Standard 3-14-14 1240 3-14.14 (120 Time Collection Date CONTRACT LABORATORY: SAMPLER(S): AF Lynder Golder Associates TURN-AROUND TIME: Pond 44 Conposite 416-6012-590 Pond 9 Composite Lab I.D. Relinquished by (signature) PROJECT NO .: Sample I.D.

1118/14



e-mail: clientservices@alpha-labs.com

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ELAP Certificate Numbers 1551 and 2728

04 April 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14C1491

Enclosed are the results of analyses for samples received by the laboratory on 03/20/14 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

PO Box 660140 / Attention SSC AP - CEMENT

Dallas TX, 75266-0140

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 04/04/14 11:36

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4 EFF M-001	14C1491-01	Water	03/20/14 09:00	03/20/14 21:45
Pond 4A DN R-002A	14C1491-02	Water	03/20/14 10:50	03/20/14 21:45
Pond 9 Eff M-002	14C1491-03	Water	03/20/14 11:05	03/20/14 21:45
Pond 9 UP R-001B	14C1491-04	Water	03/20/14 11:15	03/20/14 21:45
Pond 9 DN R-002B	14C1491-05	Water	03/20/14 11:20	03/20/14 21:45



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 04/04/14 11:36

# Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL R	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4 EFF M-001 (14C1491-01) Water	Sampled: 03	3/20/14 09:00	Receive	d: 03/20/1	14 21:45					
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	1	AC42646	03/26/14 16:00	03/28/14 16:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AC42420	03/21/14 13:00	03/21/14 17:00	SM2540F	U
Pond 4A DN R-002A (14C1491-02) Wate	r Sampled:	03/20/14 10:5	0 Receiv	ed: 03/20	0/14 21:45					
<b>Total Dissolved Solids</b>	1100	5.0	10	mg/l	1	AC42646	03/26/14 16:00	03/28/14 16:00	SM2540C	
Pond 9 Eff M-002 (14C1491-03) Water	Sampled: 03/	20/14 11:05	Received	: 03/20/14	4 21:45					
<b>Total Dissolved Solids</b>	960	5.0	10	mg/l	1	AC42646	03/26/14 16:00	03/28/14 16:00	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AC42420	03/21/14 13:00	03/21/14 17:00	SM2540F	U
Pond 9 UP R-001B (14C1491-04) Water	Sampled: 03	/20/14 11:15	Received	1: 03/20/1	14 21:45					
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	1	AC42646	03/26/14 16:00	03/28/14 16:00	SM2540C	
Pond 9 DN R-002B (14C1491-05) Water	Sampled: 03	3/20/14 11:20	Receive	d: 03/20/	14 21:45					
Total Dissolved Solids	980	5.0	10	mg/l	1	AC42646	03/26/14 16:00	03/28/14 16:00	SM2540C	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project Manager: Chow Yip

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 04/04/14 11:36

# Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	R MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4 EFF M-001 (14C1491-01) Water	Sampled: 03	/20/14 09:00	Receive	1: 03/20/	14 21:45					
Chloride	13	0.60	10	mg/l	20	AC42227	03/22/14 09:41	03/23/14 01:04	EPA 300.0	
Pond 4A DN R-002A (14C1491-02) Water	r Sampled: (	03/20/14 10:5	0 Receiv	ed: 03/20	)/14 21:45					
Chloride	13	0.60	10	mg/l	20	AC42227	03/22/14 09:41	03/23/14 01:19	EPA 300.0	
Pond 9 Eff M-002 (14C1491-03) Water	Sampled: 03/2	0/14 11:05	Received	03/20/14	1 21:45					
Chloride	110	0.75	12	mg/l	25	AC42227	03/22/14 09:41	03/23/14 01:34	EPA 300.0	
Pond 9 UP R-001B (14C1491-04) Water	Sampled: 03/	20/14 11:15	Received	l: 03/20/1	4 21:45					
Chloride	19	0.75	12	mg/l	25	AC42227	03/22/14 09:41	03/23/14 01:49	EPA 300.0	
Pond 9 DN R-002B (14C1491-05) Water	Sampled: 03	/20/14 11:20	Receive	1: 03/20/	14 21:45					
Chloride	63	0.75	12	mg/l	25	AC42227	03/22/14 09:41	03/23/14 02:04	EPA 300.0	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 04/04/14 11:36

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC42420 - General Prepar	ation										
Duplicate (AC42420-DUP1)		Source: 1	14C1502-01		Prepared &	t Analyzed	: 03/21/14				
Total Settleable Solids	ND	0.10	0.10	ml/l		ND				200	
Batch AC42646 - General Prepar	ation										
Blank (AC42646-BLK1)					Prepared: (	03/26/14 A	nalyzed: 03	/28/14			
Total Dissolved Solids	ND	5.0	10	mg/l							
Duplicate (AC42646-DUP1)		Source: 1	14C1491-01		Prepared: (	03/26/14 A	nalyzed: 03	/28/14			
Total Dissolved Solids	1040	5.0	10	mg/l		1010			2.34	30	



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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 04/04/14 11:36

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

# Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC42227 - General Preparation	n										
Blank (AC42227-BLK1)					Prepared &	Analyzed:	03/22/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AC42227-BS1)					Prepared &	Analyzed:	03/22/14				
Chloride	11.3	0.030	0.50	mg/l	11.1		101	90-110			
Duplicate (AC42227-DUP1)		Source: 1	4C1463-03		Prepared &	Analyzed:	03/22/14				
Chloride	33.0	0.15	2.5	mg/l		32.8			0.622	20	
Matrix Spike (AC42227-MS1)		Source: 1	4C1463-03		Prepared &	Analyzed:	03/22/14				
Chloride	44.5	0.15	2.5	mg/l	11.1	32.8	105	80-120			
Matrix Spike (AC42227-MS2)		Source: 1	4C1465-03		Prepared &	: Analyzed:	03/22/14				
Chloride	45.6	0.15	2.5	mg/l	11.1	32.8	115	80-120			
Matrix Spike Dup (AC42227-MSD1)		Source: 1	4C1463-03		Prepared &	Analyzed:	03/22/14				
Chloride	44.6	0.15	2.5	mg/l	11.1	32.8	106	80-120	0.212	20	



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Lehigh Southwest Cement Company

Dallas TX, 75266-0140

PO Box 660140 / Attention SSC AP - CEMENT

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 04/04/14 11:36

#### **Notes and Definitions**

Project Manager: Chow Yip

U Analyte included in analysis, but not detected at or above MDL.

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

RPD Relative Percent Difference

A Golder Associates

# CHAIN OF CUSTODY Golder Associates

Page / of /

1401491

Quotation No. 84 4500554289 8 No EDD required? EDF required? Attn: Scenge Wegmann, Greg Knapp,
Golder Associates Inc.
425 Lakeside Drive
Sunnyvale, CA 94085
Phone (408) 220-9223
Fax (408) 220-9224 Remarks 5.0 Yes Yes Cont. SEND RESULTS TO: 500 ANALYSES 1505 3-30-14 71 169 XX ٧ × 1 2 × Container Info Type/Vol. Preserv. Filter Weekly Lehigh StG Permit Received by: (signature) David Chat Matrix Depth Received by: (signatu SITE NAME: Standard Alpha 3 Time 1115 3-20-14 0900 1130 1050 105 Collection Date CONTRACT LABORATORY: Walter TURN-AROUND TIME: Rond 9 DN R-003B Rond 4A DN R-003A Pard 9 Eff M-062 Lab I.D. 063-7109.914 Rond 9 4P R-0018 and 4Eff m-001 PROJECT NO.: Relinquished by: (signature) SAMPLER(S) David Sample I.D.

2145

3-30-14



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

09 April 2014

Lehigh Southwest Cement Company

Attn: Chow Yip

PO Box 660140 / Attention SSC AP - CEMENT

Dallas, TX 75266-0140

RE: Lehigh S & G Permit

Work Order: 14C1597

Enclosed are the results of analyses for samples received by the laboratory on 03/24/14 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Project: Lehigh S & G Permit

Reported: 04/09/14 10:09

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Composite	14C1597-01	Water	03/21/14 10:45	03/24/14 21:45
Pond 9 Composite	14C1597-02	Water	03/21/14 11:30	03/24/14 21:45



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

Reported: 04/09/14 10:09

# Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	R MDL	eporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4A Composite (14C1597-01) Water	Sampled: 03	3/21/14 10:45	Receive	ed: 03/24/	14 21:45					
Total Suspended Solids	ND	0.30	0.50	mg/l	1	AC42729	03/27/14 10:45	03/28/14 16:30	SM2540D	U
Pond 9 Composite (14C1597-02) Water	Sampled: 03/2	21/14 11:30	Received	1: 03/24/14	4 21:45					
<b>Total Suspended Solids</b>	4.8	0.30	0.50	mg/l	1	AC42729	03/27/14 15:00	03/28/14 16:30	SM2540D	



e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140

Project: Lehigh S & G Permit

Reported: 04/09/14 10:09

PO Box 660140 / Attention SSC AP - CEMENT

Project Number: 063-7109-914

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC42729 - General Preparation											
Blank (AC42729-BLK1)					Prepared: (	03/27/14 A	nalyzed: 03	/28/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AC42729-DUP1)		Source:	14C1603-01		Prepared: (	)3/27/14 A	nalyzed: 03	/28/14			
Total Suspended Solids	60.0	0.30	0.50	mg/l		100			50.0	30	QD-02
Duplicate (AC42729-DUP2)		Source:	14C1634-01		Prepared: (	)3/27/14 A	nalyzed: 03	/28/14			
Total Suspended Solids	270	0.30	0.50	mg/l		285			5.41	30	



e-mail: clientservices@alpha-labs.com

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Lehigh Southwest Cement Company

Project Manager: Chow Yip

Dallas TX, 75266-0140 PO Box 660140 / Attention SSC AP - CEMENT Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 04/09/14 10:09

#### **Notes and Definitions**

QD-02 High duplicate RPD due to sample non-homogeneity.

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Golder Associates CHAIN OF CUSTODY

Page L of Quotation No. B\* 4500554289

ontainer houtainer houtain		
Date Time Matrix Depth Preserv  3-31-14 1045 W  Received by: (signalus)	ANALYSES	EDD required?
ORY: A 1 pha Container Info Collection Standard Date Time Matrix Depth Preserv  3-31-14 1045 W  3-31-14 1130 W  Received by, (Signalure)  Received by, (Signalure)  Received by, (Signalure)  Date Time Matrix Depth Preserv  13-31-14 1130 W  Received by, (Signalure)  Date Time Matrix Depth Preserved by, (Signalure)	>	v Yes No
Collection  Standard  TypeNol. [L Filter W 3-31-14, 1045 W  Received by: (signalfs)  Received by: (signalfs)  Received by: (signalfs)  Standard  Received by: (signalfs)  Received by: (signalfs)  Description		equi
Collection Date Time Matrix Depth Preserv.  3-31-14 1045 W  Racelved by, (signal/fe) Received by, (signal/fe)  Received by, (signal/fe)  Received by, (signal/fe)  Received by, (signal/fe)  Received by, (signal/fe)		Yes
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3-31-14, 1045 W 3-31-14, 1130 W Received by; (signal/s)  Received by; (signal/s)  Received by; (signal/s)		A LI T. D. Z.
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(e) Received by: (signature) ( Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Date/Time: Da		
Received by: (signature)  Received by: (signature)		*
Received by: (signature)		
Received by: (signature)	3/3// 1445 SEND RESULTS TO:	Egmann, Greg Knopp)
AN PIKIT	7.14 17:00	
Received by: (signature) Received by: (signature)	Fax (408) 220-9224	



e-mail: clientservices@alpha-labs.com

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ELAP Certificate Numbers 1551 and 2728

10 April 2014

Golder Associates - Sunnyvale

Attn: George Wegman

425 Lakeside Drive

Sunnyvale, CA 94085

RE: Lehigh S & G Permit

Work Order: 14C1788

Enclosed are the results of analyses for samples received by the laboratory on 03/26/14 21:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



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Golder Associates - Sunnyvale Sunnyvale CA, 94085

425 Lakeside Drive

Project Manager: George Wegman

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 04/10/14 14:08

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A Eff M-001	14C1788-01	Water	03/26/14 10:00	03/26/14 21:30
Pond 4A DN R-002A	14C1788-02	Water	03/26/14 11:15	03/26/14 21:30
Pond 9 Eff M-002	14C1788-03	Water	03/26/14 11:30	03/26/14 21:30
Pond 9 UP R-001B	14C1788-04	Water	03/26/14 11:40	03/26/14 21:30
Pond 9 DN R-002B	14C1788-05	Water	03/26/14 11:45	03/26/14 21:30



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Golder Associates - Sunnyvale

Sunnyvale CA, 94085 425 Lakeside Drive Project Manager: George Wegman

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 04/10/14 14:08

# Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4A DN R-002A (14C1788-02) Water	Sampled	: 03/26/14 11:1:	5 Recei	ved: 03/26	5/14 21:30					
Calcium	180	0.010	1.0	mg/l	1	AC42824	03/28/14 12:50	04/04/14 16:14	EPA 200.7	
Magnesium	39	0.0080	1.0	"	"	"	"	"	"	
Pond 9 UP R-001B (14C1788-04) Water	Sampled: 0	3/26/14 11:40	Receive	d: 03/26/1	4 21:30					
Calcium	190	0.010	1.0	mg/l	1	AC42824	03/28/14 12:50	04/04/14 16:19	EPA 200.7	
Magnesium	51	0.0080	1.0	"	"	"	"	"	"	
Pond 9 DN R-002B (14C1788-05) Water	Sampled: 0	3/26/14 11:45	Receive	d: 03/26/1	4 21:30					
Calcium	180	0.010	1.0	mg/l	1	AC42824	03/28/14 12:50	04/04/14 16:24	EPA 200.7	
Magnesium	48	0.0080	1.0	"	"	"	"	"	"	



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Golder Associates - Sunnyvale

Project Manager: George Wegman Sunnyvale CA, 94085 Project: Lehigh S & G Permit 425 Lakeside Drive Project Number: 063-7109-914

Reported: 04/10/14 14:08

# Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

	D 1		porting						M (1 - 1	N-4
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4A Eff M-001 (14C1788-01) Water	Sampled:	03/26/14 10:00	Receive	ed: 03/26/	/14 21:30					
Oil & Grease (HEM)	1.2	0.80	1.4	mg/l	1	AC42708	03/27/14 08:04	04/02/14 15:37	EPA 1664A	J
Pond 4A DN R-002A (14C1788-02) Water	r Sampled	: 03/26/14 11:1:	5 Recei	ved: 03/2	6/14 21:30					
Salinity	ND	2.0	2.0	g/kg	1	AD40428	04/04/14 12:01	04/04/14 12:41	SM2520B	U
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	"	AC42816	03/28/14 10:00	04/01/14 08:30	SM2540C	
Hardness, Total	617	1	5	"	"	AC42824	03/28/14 12:50	04/04/14 16:14	SM2340B	
Pond 9 Eff M-002 (14C1788-03) Water	Sampled: 03	3/26/14 11:30	Received	l: 03/26/1	4 21:30					
Oil & Grease (HEM)	1.5	0.80	1.4	mg/l	1	AC42708	03/27/14 08:04	04/02/14 15:37	EPA 1664A	
<b>Total Dissolved Solids</b>	1200	5.0	10	"	"	AC42816	03/28/14 10:00	04/01/14 08:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AC42727	03/27/14 13:00	03/27/14 17:00	SM2540F	U
Pond 9 UP R-001B (14C1788-04) Water	Sampled: 0	03/26/14 11:40	Receive	ed: 03/26/1	14 21:30					
Salinity	ND	2.0	2.0	g/kg	1	AD40428	04/04/14 12:01	04/04/14 12:41	SM2520B	U
<b>Total Dissolved Solids</b>	1100	5.0	10	mg/l	"	AC42816	03/28/14 10:00	04/01/14 08:30	SM2540C	
Hardness, Total	692	1	5	"	"	AC42824	03/28/14 12:50	04/04/14 16:19	SM2340B	
Pond 9 DN R-002B (14C1788-05) Water	Sampled: (	03/26/14 11:45	Receive	ed: 03/26/	14 21:30					
Salinity	ND	2.0	2.0	g/kg	1	AD40428	04/04/14 12:01	04/04/14 12:41	SM2520B	U
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	"	AC42816	03/28/14 10:00	04/01/14 08:30	SM2540C	
Hardness, Total	641	1	5	"	"	AC42824	03/28/14 12:50	04/04/14 16:24	SM2340B	



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Golder Associates - Sunnyvale Sunnyvale CA, 94085

Project Manager: George Wegman

Project: Lehigh S & G Permit

Reported: 04/10/14 14:08

425 Lakeside Drive

Project Number: 063-7109-914

# Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Reporting  Appliets Point II in Print II i													
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes			
Pond 4A DN R-002A (14C1788-02) Water Sampled: 03/26/14 11:15 Received: 03/26/14 21:30													
Chloride	14	0.60	10	mg/l	20	AC43140	03/31/14 15:30	03/31/14 21:14	EPA 300.0				
Pond 9 Eff M-002 (14C1788-03) Water	Sampled: 03/2	6/14 11:30	Received:	03/26/14	21:30								
Chloride	54	0.75	12	mg/l	25	AC43140	03/31/14 15:30	03/31/14 21:29	EPA 300.0				
Pond 9 UP R-001B (14C1788-04) Water	Sampled: 03/2	26/14 11:40	Received	l: 03/26/1	4 21:30								
Chloride	20	0.60	10	mg/l	20	AC43140	03/31/14 15:30	03/31/14 21:44	EPA 300.0				
Pond 9 DN R-002B (14C1788-05) Water Sampled: 03/26/14 11:45 Received: 03/26/14 21:30													
Chloride	19	0.60	10	mg/l	20	AC43140	03/31/14 15:30	03/31/14 21:59	EPA 300.0				



425 Lakeside Drive

# Alpha Analytical Laboratories Inc.

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Golder Associates - Sunnyvale Project Manager: George Wegman Sunnyvale CA, 94085 Project: Lehigh S & G Per

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 04/10/14 14:08

# Metals by EPA 200 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source	0/755	%REC	222	RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AC42824 - Metals Digest											
Blank (AC42824-BLK1)					Prepared: (	03/28/14 A	nalyzed: 04	/01/14			
Calcium	ND	0.010	1.0	mg/l							Ţ
Magnesium	ND	0.0080	1.0	"							Ţ
LCS (AC42824-BS1)					Prepared: (	03/28/14 A	nalyzed: 04	/01/14			
Calcium	7.20	0.010	1.0	mg/l	8.00		90.0	85-115			
Magnesium	7.30	0.0080	1.0	"	8.00		91.3	85-115			
Duplicate (AC42824-DUP1)		Source:	14C1843-02		Prepared: (	03/28/14 A	nalyzed: 04	/01/14			
Calcium	124	0.010	1.0	mg/l		120			3.33	20	
Magnesium	52.5	0.0080	1.0	"		50.5			3.98	20	
Matrix Spike (AC42824-MS1)		Source:	14C1843-02		Prepared: (	03/28/14 A	nalyzed: 04	/01/14			
Calcium	130	0.010	1.0	mg/l	8.00	120	116	70-130			
Magnesium	57.9	0.0080	1.0	"	8.00	50.5	92.4	70-130			
Matrix Spike (AC42824-MS2)		Source:	14C1646-01		Prepared: (	03/28/14 A	nalyzed: 04	/01/14			
Calcium	56.3	0.010	1.0	mg/l	8.00	50.7	70.3	70-130			
Magnesium	25.6	0.0080	1.0	"	8.00	18.8	85.4	70-130			
Matrix Spike Dup (AC42824-MSD1)		Source:	14C1843-02		Prepared: (	03/28/14 A	nalyzed: 04	/01/14			
Calcium	118	0.010	1.0	mg/l	8.00	120	NR	70-130	9.06	20	QM-4X
Magnesium	55.2	0.0080	1.0	"	8.00	50.5	59.6	70-130	4.65	20	QM-4X



425 Lakeside Drive

Alpha Analytical Laboratories Inc.

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Golder Associates - Sunnyvale
Sunnyvale CA, 94085

Project Manager: George Wegman
Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 04/10/14 14:08

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
,		WIDL	Limit	Omis	Level	Result	70KEC	Lillits	KID	Lillit	Notes
Batch AC42708 - General Preparati	on										
Blank (AC42708-BLK1)					Prepared: (	03/27/14 A	nalyzed: 04	1/02/14			
Oil & Grease (HEM)	ND	0.80	1.4	mg/l							1
LCS (AC42708-BS1)					Prepared: (	03/27/14 A	nalyzed: 04	1/02/14			
Oil & Grease (HEM)	34.9	0.80	1.4	mg/l	40.0		87.2	78-114		18	
LCS Dup (AC42708-BSD1)					Prepared: (	03/27/14 A	nalyzed: 04	1/02/14			
Oil & Grease (HEM)	37.4	0.80	1.4	mg/l	40.0		93.5	78-114	6.92	18	
Matrix Spike (AC42708-MS1)		Source:	14C1795-02		Prepared: (	03/27/14 A	nalyzed: 04	1/02/14			
Oil & Grease (HEM)	18.3	0.80	1.4	mg/l	20.0	2.10	81.0	78-114		18	
Batch AC42816 - General Preparati	on										
Blank (AC42816-BLK1)					Prepared: (	03/28/14 A	nalyzed: 04	1/01/14			
Total Dissolved Solids	ND	5.0	10	mg/l	•						1
Duplicate (AC42816-DUP1)		Source:	14C1788-02		Prepared: (	03/28/14 A	nalyzed: 04	1/01/14			
Total Dissolved Solids	928	5.0	10	mg/l	•	1010	-		8.66	30	
Duplicate (AC42816-DUP2)		Source:	14C1817-02		Prepared: (	03/28/14 A	nalyzed: 04	1/01/14			
Total Dissolved Solids	297	5.0	10	mg/l	•	308			3.64	30	
Batch AC42824 - Metals Digest											
Blank (AC42824-BLK1)					Prepared: (	03/28/14 A	nalyzed: 0/	1/01/14			
Hardness, Total	ND	1	5	mg/l	Tropared.	33,20/17 A	mary zea. 0	1/01/17			-



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Golder Associates - Sunnyvale

Project Manager: George Wegman

Sunnyvale CA, 94085 425 Lakeside Drive

Project: Lehigh S & G Permit

Reported: 04/10/14 14:08

Project Number: 063-7109-914

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch AC42824 - Metals Digest

Duplicate (AC42824-DUP1)		Source: 14C1843-02			Prepared: 03/28/14 Analyzed: 04/01/14			
Hardness, Total	527	1	5	mg/l	508	3.60	20	



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Golder Associates - Sunnyvale

Project Manager

Project Manager: George Wegman

Project: Lehigh S & G Permit

Reported: 04/10/14 14:08

Sunnyvale CA, 94085 425 Lakeside Drive

Project Number: 063-7109-914

# Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC43140 - General Preparation				2.1113		2235410	, ,,,,				2.0.00
Blank (AC43140-BLK1)					Prepared &	t Analyzed:	: 03/31/14				
Chloride	ND	0.030	0.50	mg/l	-	•					U
LCS (AC43140-BS1)					Prepared &	λ Analyzed:	03/31/14				
Chloride	10.8	0.030	0.50	mg/l	11.1		97.3	90-110			
Duplicate (AC43140-DUP1)		Source: 1	4C1981-01		Prepared &	k Analyzed:	03/31/14				
Chloride	4.57	0.030	0.50	mg/l		4.56			0.0657	20	
Matrix Spike (AC43140-MS1)		Source: 1	4C1981-01		Prepared &	k Analyzed:	03/31/14				
Chloride	15.8	0.030	0.50	mg/l	11.1	4.56	102	80-120			
Matrix Spike (AC43140-MS2)		Source: 1	4C2019-01		Prepared &	t Analyzed:	03/31/14				
Chloride	15.4	0.15	2.5	mg/l	11.1	4.97	94.1	80-120			
Matrix Spike Dup (AC43140-MSD1)		Source: 1	4C1981-01		Prepared &	ኔ Analyzed:	03/31/14				
Chloride	15.7	0.030	0.50	mg/l	11.1	4.56	100	80-120	1.07	20	



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Golder Associates - Sunnyvale Project Manager: George Wegman

 Sunnyvale CA, 94085
 Project:
 Lehigh S & G Permit
 Reported:

 425 Lakeside Drive
 Project Number:
 063-7109-914
 04/10/14 14:08

#### **Notes and Definitions**

J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the

spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

14C 1788

CHAIN OF CUSTODY Golder Associates

Quotation No. Po#4500554289 Page 1 of 1

3/27/14 3 No 100W-H3 Attn: Greorge Wegmann, Greeg Knapp, Golder Associates Inc. EDD required? EDF required? Remarks Chow Fro conceled all but Pond 4 A Yes Z'es Robbie. 425 Lakeside Drive Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224 SEND RESULTS TO: Cont. O. 2/30 000 ANALYSES Date/Time 2600 3-36-14 Date/Tin NNN X 1291 1c 1cmb 1c HySau 1.0 + Set mat × × Container Info Type/Vol. Preserv. (Monthly) Filter Lehiah Stb permit David Chalt Received by: (signalure Depth SITE NAME: Matrix Standary 1140 1145 Time 15 1130 3-26-14 1000 Collection Date CONTRACT LABORATORY: (printed) Golder Associates TURN-AROUND TIME: Bud 4A Eff m-001 Pord 90N R-003B 063-7109-914 Pond 4A DN R-DOOD Rond 9 Eff M-000 Pand 94P R-001B Lab I.D. PROJECT NO .: SAMPLER(S) David Sample I.D.



Alpha Analytical Laboratories Inc. e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

ELAP Certificate Numbers 1551 and 2728

11 April 2014

Golder Associates - Sunnyvale

Attn: George Wegman 425 Lakeside Drive

Sunnyvale, CA 94085

sumiy vare, erry roos

RE: Lehigh S & G Permit

Work Order: 14C1913

Enclosed are the results of analyses for samples received by the laboratory on 03/27/14 21:40. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

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Golder Associates - Sunnyvale Sunnyvale CA, 94085

Project Manager: George Wegman

Project: Lehigh S & G Permit

Reported: 04/11/14 11:08

425 Lakeside Drive

Project Number: 063-7109-914

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 4A EFF M-001	14C1913-01	Water	03/27/14 13:10	03/27/14 21:40
Pond 4A Composite	14C1913-02	Water	03/27/14 13:10	03/27/14 21:40
Pond 9 Composite	14C1913-03	Water	03/27/14 14:00	03/27/14 21:40



425 Lakeside Drive

### Alpha Analytical Laboratories Inc.

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Golder Associates - Sunnyvale Project Manager: George Wegman Sunnyvale CA, 94085 Project: Lehigh S & G Per

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 04/11/14 11:08

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

		Re	porting							
Analyte	Result	MDL	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4A EFF M-001 (14C1913-01) Water	Sampled:	03/27/14 13:10	Receiv	ved: 03/27	7/14 21:40					
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	1	AC43125	03/31/14 09:15	04/02/14 12:30	SM2540C	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AD40143	03/28/14 16:00	03/28/14 17:00	SM2540F	U
Pond 4A Composite (14C1913-02) Water	Sampled: 0	3/27/14 13:10	Receiv	ed: 03/27/	14 21:40					
<b>Total Suspended Solids</b>	0.84	0.30	0.50	mg/l	1	AD40125	04/01/14 08:09	04/02/14 11:24	SM2540D	
Pond 9 Composite (14C1913-03) Water	Sampled: 03	/27/14 14:00 I	Received	l: 03/27/1	4 21:40					
<b>Total Suspended Solids</b>	5.4	0.30	0.50	mg/l	1	AD40125	04/01/14 08:09	04/02/14 11:24	SM2540D	



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Golder Associates - Sunnyvale Sunnyvale CA, 94085

425 Lakeside Drive

Project Manager: George Wegman

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 04/11/14 11:08

### Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	R MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 4A EFF M-001 (14C1913-01) Water	Sampled: 0	3/27/14 13:1	10 Receiv	ed: 03/2	7/14 21:40					
Chloride	13	0.15	2.5	mg/l	5	AC42835	03/28/14 12:00	04/01/14 05:02	EPA 300.0	



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Reported:

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Project Manager: George Wegman Golder Associates - Sunnyvale

Sunnyvale CA, 94085 Project: Lehigh S & G Permit 04/11/14 11:08 425 Lakeside Drive Project Number: 063-7109-914

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	RESUIT	WIDL	LIIIII	Units	Level	Resuit	/0KEC	Limits	KrD	Lillit	inotes
Batch AC43125 - General Preparation	1										
Blank (AC43125-BLK1)					Prepared: 0	3/31/14 A	Analyzed: 04/	02/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AC43125-DUP1)		Source: 1	4C1857-02		Prepared: 0	3/31/14 A	Analyzed: 04/	02/14			
Total Dissolved Solids	568	5.0	10	mg/l		544			4.32	30	
Duplicate (AC43125-DUP2)		Source: 1	4C1913-01		Prepared: 0	03/31/14 A	Analyzed: 04/	02/14			
Total Dissolved Solids	928	5.0	10	mg/l	•	1010			8.26	30	
Batch AD40125 - General Preparation	1										
Blank (AD40125-BLK1)					Prepared: 0	04/01/14 A	Analyzed: 04/	02/14			
Total Suspended Solids	ND	0.30	0.50	mg/l	-						U
Duplicate (AD40125-DUP1)		Source: 1	4C1844-04		Prepared: 0	04/01/14 A	Analyzed: 04/	02/14			
Total Suspended Solids	303	0.30	0.50	mg/l		320			5.35	30	
Duplicate (AD40125-DUP2)		Source: 1	4C1963-01		Prepared: 0	04/01/14 A	Analyzed: 04/	02/14			
Total Suspended Solids	305	0.30	0.50	mg/l		320			4.65	30	



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Golder Associates - Sunnyvale Sunnyvale CA, 94085

425 Lakeside Drive

Project Manager: George Wegman

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 04/11/14 11:08

### Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AC42835 - General Preparatio	n										
Blank (AC42835-BLK1)					Prepared &	z Analyzed	: 03/28/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AC42835-BS1)					Prepared &	z Analyzed	: 03/28/14				
Chloride	12.0	0.030	0.50	mg/l	11.1		108	90-110			
Duplicate (AC42835-DUP1)		Source: 1	4C1895-01		Prepared: (	)3/28/14 A	nalyzed: 04	4/01/14			
Chloride	6.56	0.030	0.50	mg/l		6.63			1.08	20	
Matrix Spike (AC42835-MS1)		Source: 1	4C1895-01		Prepared: (	03/28/14 A	nalyzed: 04	4/01/14			
Chloride	17.9	0.030	0.50	mg/l	11.1	6.63	102	80-120			
Matrix Spike (AC42835-MS2)		Source: 1	4C1900-01		Prepared: (	03/28/14 A	nalyzed: 04	4/01/14			
Chloride	15.3	0.030	0.50	mg/l	11.1	3.61	105	80-120			
Matrix Spike Dup (AC42835-MSD1)		Source: 1	4C1895-01		Prepared: (	)3/28/14 A	nalyzed: 04	4/01/14			
Chloride	17.5	0.030	0.50	mg/l	11.1	6.63	98.2	80-120	2.21	20	



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Golder Associates - Sunnyvale Project Manager: George Wegman

 Sunnyvale CA, 94085
 Project:
 Lehigh S & G Permit
 Reported:

 425 Lakeside Drive
 Project Number:
 063-7109-914
 04/11/14 11:08

#### **Notes and Definitions**

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Golder Associates

Golder Associates CHAIN OF CUSTODY

14C1913
Page L of L
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100	uished by: (signature)	lusal	13 B	1	\$ C	. 3	Chic		9224	



Alpha | Analytical Laboratories Inc. e-mail: clientservices@alpha-labs.com

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ELAP Certificate Numbers 1551 and 2728

16 April 2014

Golder Associates - Sunnyvale

Attn: George Wegman 425 Lakeside Drive

Sunnyvale, CA 94085

RE: Lehigh S & G Permit

Work Order: 14D0013

Enclosed are the results of analyses for samples received by the laboratory on 03/31/14 21:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jeanette L. Poplin For Robbie C. Phillips

Jeanette Popli

Project Manager



e-mail: clientservices@alpha-labs.com

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Golder Associates - Sunnyvale Sunnyvale CA, 94085

Project Manager: George Wegman

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 04/16/14 11:25

425 Lakeside Drive

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 17 EFF M-001	14D0013-01	Water	03/30/14 12:20	03/31/14 21:30
Pond 17 DN R-002D	14D0013-02	Water	03/30/14 12:30	03/31/14 21:30



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Golder Associates - Sunnyvale Sunnyvale CA, 94085

425 Lakeside Drive

Project Manager: George Wegman

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 04/16/14 11:25

### Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 17 DN R-002D (14D0013-02) Water	Sampled:	03/30/14 12:30	Receiv	ed: 03/31/	14 21:30					
Calcium	180	0.010	1.0	mg/l	1	AD40140	04/02/14 14:57	04/08/14 17:06	EPA 200.7	
Magnesium	51	0.0080	1.0	"	"	"	"	"	"	



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Project Manager: George Wegman Golder Associates - Sunnyvale

Sunnyvale CA, 94085 Project: Lehigh S & G Permit 425 Lakeside Drive Project Number: 063-7109-914

Reported: 04/16/14 11:25

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re <sub>j</sub> MDL	oorting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 17 EFF M-001 (14D0013-01) Water	Sampled: 0	03/30/14 12:20	Receiv	ed: 03/31/	14 21:30					
Oil & Grease (HEM)	3.0	0.80	1.4	mg/l	1	AD40728	04/07/14 08:00	04/10/14 08:20	EPA 1664A	QC-MS
<b>Total Dissolved Solids</b>	720	5.0	10	"	"	AD40225	04/02/14 09:30	04/07/14 08:30	SM2540C	
<b>Total Suspended Solids</b>	20	0.30	0.50	"	"	AD40244	04/02/14 16:03	04/07/14 15:45	SM2540D	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AD40413	04/01/14 16:00	04/01/14 17:00	SM2540F	U
Pond 17 DN R-002D (14D0013-02) Water	Sampled: (	03/30/14 12:30	Receiv	ed: 03/31/	/14 21:30					
Salinity	ND	2.0	2.0	g/kg	1	AD40428	04/04/14 12:01	04/04/14 12:41	SM2520B	U
<b>Total Dissolved Solids</b>	1000	5.0	10	mg/l	"	AD40225	04/02/14 09:30	04/07/14 08:30	SM2540C	
Hardness, Total	653	1	5	"	"	AD40140	04/02/14 14:57	04/08/14 17:06	SM2340B	



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Golder Associates - Sunnyvale Sunnyvale CA, 94085

425 Lakeside Drive

Project Manager: George Wegman Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 04/16/14 11:25

### Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	Rep MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 17 EFF M-001 (14D0013-01) Water	Sampled: 0	3/30/14 12:20	Receive	ed: 03/31/	14 21:30					
Chloride	96	0.60	10	mg/l	20	AD40127	04/01/14 10:00	04/01/14 11:38	EPA 300.0	
Pond 17 DN R-002D (14D0013-02) Water	Sampled: 0	3/30/14 12:30	Receive	ed: 03/31/	14 21:30					
Chloride	23	0.60	10	mg/l	20	AD40127	04/01/14 10:00	04/01/14 12:08	EPA 300.0	



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Golder Associates - Sunnyvale
Sunnyvale CA, 94085
Project Manager: George Wegman
Project: Lehigh S & G Permit
425 Lakeside Drive
Project Number: 063-7109-914

 Project:
 Lehigh S & G Permit
 Reported:

 Project Number:
 063-7109-914
 04/16/14 11:25

# Metals by EPA 200 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AD40140 - Metals Digest											
Blank (AD40140-BLK1)					Prepared: (	04/01/14 A	nalyzed: 04	/03/14			
Calcium	ND	0.010	1.0	mg/l							U
Magnesium	ND	0.0080	1.0	"							U
LCS (AD40140-BS1)					Prepared: (	04/01/14 A	nalyzed: 04	/03/14			
Calcium	7.43	0.010	1.0	mg/l	8.00		92.9	85-115			
Magnesium	7.61	0.0080	1.0	"	8.00		95.2	85-115			
Duplicate (AD40140-DUP1)		Source: 14	4C1957-01		Prepared: (	04/01/14 A	nalyzed: 04	/03/14			
Calcium	192	0.010	1.0	mg/l		205			6.65	20	
Magnesium	36.1	0.0080	1.0	"		38.2			5.60	20	
Matrix Spike (AD40140-MS1)		Source: 14	4C1957-01		Prepared: (	04/01/14 Aı	nalyzed: 04	/03/14			
Calcium	176	0.010	1.0	mg/l	8.00	205	NR	70-130			QM-4X
Magnesium	38.4	0.0080	1.0	"	8.00	38.2	2.79	70-130			QM-4X
Matrix Spike (AD40140-MS2)		Source: 14	4C2030-02		Prepared: (	04/01/14 A	nalyzed: 04	/03/14			
Calcium	26.9	0.010	1.0	mg/l	8.00	20.7	77.4	70-130			
Magnesium	17.8	0.0080	1.0	"	8.00	11.1	82.9	70-130			
Matrix Spike Dup (AD40140-MSD1)		Source: 14	4C1957-01		Prepared: (	04/01/14 A	nalyzed: 04	/03/14			
Calcium	201	0.010	1.0	mg/l	8.00	205	NR	70-130	13.4	20	QM-4X
Magnesium	44.3	0.0080	1.0	"	8.00	38.2	76.2	70-130	14.2	20	



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Golder Associates - Sunnyvale CA 94085

Project Manager: George Wegman

Project: Lehigh S & G Pe

Sunnyvale CA, 94085Project: Lehigh S & G PermitReported:425 Lakeside DriveProject Number: 063-7109-91404/16/14 11:25

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Result	11101	Ziiiit	Cilita	Level	Result	, with	Limits	МЪ	Limit	110103
Batch AD40140 - Metals Digest											
Blank (AD40140-BLK1)					Prepared: 0	04/01/14 A	nalyzed: 04/	03/14			
Hardness, Total	ND	1	5	mg/l							U
Duplicate (AD40140-DUP1)		Source: 1	14C1957-01		Prepared: 0	04/01/14 A	nalyzed: 04/	03/14			
Hardness, Total	627	1	5	mg/l		669			6.40	20	
Batch AD40225 - General Prepar	ation										
Blank (AD40225-BLK1)					Prepared: 0	04/02/14 A	nalyzed: 04/	07/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AD40225-DUP1)		Source: 1	14C1875-01		Prepared: 0	04/02/14 A	nalyzed: 04/	07/14			
Total Dissolved Solids	550	5.0	10	mg/l		544			1.10	30	
Duplicate (AD40225-DUP2)		Source: 1	14C1933-01		Prepared: 0	04/02/14 A	nalyzed: 04/	07/14			
Total Dissolved Solids	676	5.0	10	mg/l		664			1.79	30	
Batch AD40244 - General Prepar	ation										
Blank (AD40244-BLK1)					Prepared: 0	04/02/14 A	nalyzed: 04/	07/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AD40244-DUP1)		Source: 1	14D0170-02		Prepared: 0	04/02/14 A	nalyzed: 04/	07/14			
Total Suspended Solids	4530	0.30	0.50	mg/l		3960			13.5	30	
Duplicate (AD40244-DUP2)		Source: 1	14D0195-01		Prepared: 0	04/02/14 A	nalyzed: 04/	07/14			
Total Suspended Solids	169	0.30	0.50	mg/l		179			6.09	30	



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Golder Associates - Sunnyvale Project Manager: George Wegman

 Sunnyvale CA, 94085
 Project: Lehigh S & G Permit
 Reported:

 425 Lakeside Drive
 Project Number: 063-7109-914
 04/16/14 11:25

# Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AD40413 - General Preparation											
Duplicate (AD40413-DUP1)		Source: 14	D0010-01		Prepared &	Analyzed:	04/01/14				
Total Settleable Solids	ND	0.10	0.10	ml/l		ND				200	U
Batch AD40728 - General Preparation											
Blank (AD40728-BLK1)					Prepared: (	04/07/14 A	nalyzed: 04	/10/14			
Oil & Grease (HEM)	ND	0.80	1.4	mg/l							U
LCS (AD40728-BS1)					Prepared: (	04/07/14 A	nalyzed: 04	/10/14			
Oil & Grease (HEM)	35.7	0.80	1.4	mg/l	40.0		89.2	78-114		18	
LCS Dup (AD40728-BSD1)					Prepared: (	04/07/14 A	nalyzed: 04	/10/14			
Oil & Grease (HEM)	34.2	0.80	1.4	mg/l	40.0		85.5	78-114	4.29	18	



425 Lakeside Drive

Alpha Analytical Laboratories Inc.

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Golder Associates - Sunnyvale Project Manager: George Wegman Sunnyvale CA, 94085 Project: Lehigh S & G Permit

Project: Lehigh S & G Permit Project Number: 063-7109-914 Reported: 04/16/14 11:25

## Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AD40127 - General Preparation	1										
Blank (AD40127-BLK1)					Prepared &	Analyzed:	04/01/14				
Chloride	0.139	0.030	0.50	mg/l							J
LCS (AD40127-BS1)					Prepared &	Analyzed:	04/01/14				
Chloride	10.9	0.030	0.50	mg/l	11.1		98.1	90-110			
Duplicate (AD40127-DUP1)		Source: 1	4D0031-03		Prepared &	Analyzed:	04/01/14				
Chloride	31.3	0.15	2.5	mg/l		31.1			0.561	20	
Matrix Spike (AD40127-MS1)		Source: 1	4D0031-03		Prepared &	Analyzed:	04/01/14				
Chloride	42.4	0.15	2.5	mg/l	11.1	31.1	101	80-120			
Matrix Spike (AD40127-MS2)		Source: 1	4C2033-03		Prepared &	Analyzed:	04/01/14				
Chloride	15.5	0.030	0.50	mg/l	11.1	4.24	101	80-120			
Matrix Spike Dup (AD40127-MSD1)		Source: 1	4D0031-03		Prepared &	: Analyzed:	04/01/14				
Chloride	41.9	0.15	2.5	mg/l	11.1	31.1	96.7	80-120	1.25	20	



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Project Manager: George Wegman Golder Associates - Sunnyvale

Project: Lehigh S & G Permit Reported: Sunnyvale CA, 94085 04/16/14 11:25 425 Lakeside Drive Project Number: 063-7109-914

#### **Notes and Definitions**

J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

QC-MS MS/MSD not included with this batch due to insufficient sample volume.

The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the QM-4X

spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

Analyte NOT DETECTED at or above the reporting limit ND

NR Not Reported

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD

Golder Associates Inc. O. L. Un Quotation No. Po#450c554369 Include J-flans ا او No ž EDD required? EDF required? Remarks Page 1 Yes /Yes Sunnyvale, CA 94085 Phone (408) 220-9223 Fax (408) 220-9224 Sicooh! 425 Lakeside Drive SEND RESULTS TO: Cont. Mike 17/1 ANALYSES CHAIN OF CUSTODY Golder Associates Date/Time Tak Co 14.A.b Date/Th 1251 1 × 1 Container Info Type/Vol. Preserv. (Monthly Filter Lehigh SAG permi Porish Chek Received by (signature) fied by (signature) Matrix Depth SITE NAME: 3 3 30-14 1330. 3-30.14 1330. Time Collection 1211 Date CONTRACT LABORATORY: 170N R-000 David Walter TURN-AROUND TIME: Pand 17 Eff M-001 Golder Associates 416-6012-690 Lab I.D. PROJECT NO .: SAMPLER(S): Sample. I.D. Perd 12



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ELAP Certificate Numbers 1551 and 2728

18 April 2014

Golder Associates - Sunnyvale

Attn: George Wegman 425 Lakeside Drive

Sunnyvale, CA 94085

RE: Lehigh S & G Permit

Work Order: 14D0259

Enclosed are the results of analyses for samples received by the laboratory on 04/02/14 21:45. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Tabatha J. Pryor For Robbie C. Phillips

Project Manager



e-mail: clientservices@alpha-labs.com

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Golder Associates - Sunnyvale Sunnyvale CA, 94085

425 Lakeside Drive

Project Manager: George Wegman

Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 04/18/14 16:47

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Pond 20 Eff M-005	14D0259-01	Water	03/31/14 15:10	04/02/14 21:45
Pond 20 DN R-002E	14D0259-02	Water	03/31/14 15:20	04/02/14 21:45



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Golder Associates - Sunnyvale

Project Manager: George Wegman Sunnyvale CA, 94085

Project: Lehigh S & G Permit 425 Lakeside Drive Project Number: 063-7109-914

Reported: 04/18/14 16:47

### Metals by EPA 200 Series Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 20 DN R-002E (14D0259-02) Water	Sampled:	03/31/14 15:20	Receiv	ed: 04/02/	14 21:45					
Calcium	210	0.010	1.0	mg/l	1	AD40750	04/07/14 11:56	04/09/14 18:24	EPA 200.7	
Magnesium	18	0.0080	1.0	"	"	"	"	"	"	



e-mail: clientservices@alpha-labs.com

Reported:

04/18/14 16:47

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Golder Associates - Sunnyvale Project Manager: George Wegman

Sunnyvale CA, 94085 Project: Lehigh S & G Permit
425 Lakeside Drive Project Number: 063-7109-914

### Conventional Chemistry Parameters by APHA/EPA Methods Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 20 Eff M-005 (14D0259-01) Water	Sampled: 03	3/31/14 15:10	Receive	d: 04/02/1	4 21:45					
Oil & Grease (HEM)	1.4	0.80	1.4	mg/l	1	AD41007	04/10/14 07:58	04/15/14 16:51	EPA 1664A	QC-MS
<b>Total Dissolved Solids</b>	470	5.0	10	"	"	AD40411	04/04/14 10:00	04/10/14 12:30	SM2540C	
<b>Total Suspended Solids</b>	1000	0.30	0.50	"	"	AD40723	04/07/14 10:00	04/10/14 11:00	SM2540D	
Total Settleable Solids	ND	0.10	0.10	ml/l	"	AD40734	04/03/14 13:00	04/03/14 17:00	SM2540F	T-2, U
Pond 20 DN R-002E (14D0259-02) Water	Sampled: 0	3/31/14 15:20	Receiv	ed: 04/02/	14 21:45					
Salinity	ND	2.0	2.0	g/kg	1	AD40428	04/04/14 12:01	04/04/14 12:41	SM2520B	U
<b>Total Dissolved Solids</b>	630	5.0	10	mg/l	"	AD40411	04/04/14 10:00	04/10/14 12:30	SM2540C	
Hardness, Total	592	1	5	"	"	AD40750	04/07/14 11:56	04/09/14 18:24	SM2340B	



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Golder Associates - Sunnyvale

Project Manager: George Wegman

Sunnyvale CA, 94085 425 Lakeside Drive

Project: Lehigh S & G Permit Project Number: 063-7109-914

Reported: 04/18/14 16:47

### Anions by EPA Method 300.0 Alpha Analytical Laboratories, Inc.

Analyte	Result	Re MDL	porting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pond 20 Eff M-005 (14D0259-01) Water	Sampled: 03	3/31/14 15:10	Received	1: 04/02/1	4 21:45					
Chloride	15	0.030	0.50	mg/l	1	AD41228	04/12/14 08:30	04/12/14 23:44	EPA 300.0	
Pond 20 DN R-002E (14D0259-02) Water	Sampled: (	03/31/14 15:20	Receiv	ed: 04/02/	14 21:45					
Chloride	35	0.15	2.5	mg/l	5	AD41228	04/12/14 08:30	04/13/14 00:14	EPA 300.0	



425 Lakeside Drive

Alpha Analytical Laboratories Inc.

e-mail: clientservices@alpha-labs.com

Corporate: 208 Mason St., Ukiah, CA 95482 • Phone: (707) 468-0401 • Fax: (707) 468-5267 Satellite Laboratory: 6398 Dougherty Rd., Suite 35, Dublin, CA 94568 • Phone: (925) 828-6226 • Fax: (925) 828-6309

Golder Associates - Sunnyvale Project Manager: George Wegman Sunnyvale CA, 94085 Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 04/18/14 16:47

# Metals by EPA 200 Series Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AD40750 - Metals Digest			<u> </u>								
Blank (AD40750-BLK1)					Prepared: (	)4/07/14 Aı	nalyzed: 04	-/09/14			
Calcium	ND	0.010	1.0	mg/l			•				U
Magnesium	ND	0.0080	1.0	"							U
LCS (AD40750-BS1)					Prepared: (	04/07/14 Aı	nalyzed: 04	/09/14			
Calcium	6.96	0.010	1.0	mg/l	8.00		87.0	85-115			
Magnesium	7.14	0.0080	1.0	"	8.00		89.3	85-115			
Duplicate (AD40750-DUP1)		Source: 1	14D0387-01		Prepared: (	04/07/14 Aı	nalyzed: 04	/09/14			
Calcium	77.9	0.010	1.0	mg/l		72.5			7.15	20	
Magnesium	17.1	0.0080	1.0	"		16.3			4.85	20	
Matrix Spike (AD40750-MS1)		Source: 1	14D0387-01		Prepared: (	04/07/14 Aı	nalyzed: 04	/09/14			
Calcium	77.5	0.010	1.0	mg/l	8.00	72.5	62.6	70-130			QM-4X
Magnesium	22.9	0.0080	1.0	"	8.00	16.3	82.8	70-130			
Matrix Spike (AD40750-MS2)		Source: 1	4D0321-01		Prepared: (	04/07/14 Aı	nalyzed: 04	/09/14			
Calcium	7.10	0.010	1.0	mg/l	8.00	0.0685	87.9	70-130			
Magnesium	7.24	0.0080	1.0	"	8.00	0.0148	90.4	70-130			
Matrix Spike Dup (AD40750-MSD1)		Source: 1	14D0387-01		Prepared: (	04/07/14 Aı	nalyzed: 04	/09/14			
Calcium	78.7	0.010	1.0	mg/l	8.00	72.5	76.9	70-130	1.47	20	
Magnesium	23.6	0.0080	1.0	"	8.00	16.3	91.4	70-130	2.95	20	



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Golder Associates - Sunnyvale Project Manager: George Wegman

 Sunnyvale CA, 94085
 Project:
 Lehigh S & G Permit
 Reported:

 425 Lakeside Drive
 Project Number:
 063-7109-914
 04/18/14 16:47

## Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

			Reporting		Spike	Source		%REC		RPD	
Analyte	Result	MDL	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch AD40411 - General Preparation											
Blank (AD40411-BLK1)					Prepared: (	04/04/14 A	nalyzed: 04	/10/14			
Total Dissolved Solids	ND	5.0	10	mg/l							U
Duplicate (AD40411-DUP1)		Source:	14D0136-03		Prepared: (	04/04/14 A	nalyzed: 04	/10/14			
Total Dissolved Solids	354	5.0	10	mg/l		364			2.79	30	
Duplicate (AD40411-DUP2)		Source:	14D0217-04		Prepared: (	04/04/14 A	nalyzed: 04	/10/14			
Total Dissolved Solids	944	5.0	10	mg/l		1000			6.16	30	
Batch AD40723 - General Preparation											
Blank (AD40723-BLK1)					Prepared: (	04/07/14 A	nalyzed: 04	/10/14			
Total Suspended Solids	ND	0.30	0.50	mg/l							U
Duplicate (AD40723-DUP1)		Source:	14D0173-01		Prepared: (	04/07/14 A	nalyzed: 04	/10/14			
Total Suspended Solids	206	0.30	0.50	mg/l		170			19.1	30	
Duplicate (AD40723-DUP2)		Source:	14D0201-01		Prepared: (	04/07/14 A	nalyzed: 04	/10/14			
Total Suspended Solids	91.4	0.30	0.50	mg/l		91.4			0.00	30	
Batch AD40750 - Metals Digest											
Blank (AD40750-BLK1)					Prepared: (	04/07/14 A	nalyzed: 04	/09/14			
Hardness, Total	ND	1	5	mg/l			_				U
Duplicate (AD40750-DUP1)		Source:	14D0387-01		Prepared: (	04/07/14 A	nalyzed: 04	/09/14			
Hardness, Total	265	1	5	mg/l		248			6.53	20	



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Project Manager: George Wegman Golder Associates - Sunnyvale Sunnyvale CA, 94085 Project: Lehigh S & G Permit

Project Number: 063-7109-914

04/18/14 16:47

### Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AD41007 - General Preparation											
Blank (AD41007-BLK1)					Prepared: 0	04/10/14 Aı	nalyzed: 04	/15/14			
Oil & Grease (HEM)	0.800	0.80	1.4	mg/l							J
LCS (AD41007-BS1)					Prepared: 0	04/10/14 Aı	nalyzed: 04	/15/14			
Oil & Grease (HEM)	34.9	0.80	1.4	mg/l	40.0		87.2	78-114		18	
LCS Dup (AD41007-BSD1)					Prepared: 0	04/10/14 Aı	nalyzed: 04	/15/14			
Oil & Grease (HEM)	35.8	0.80	1.4	mg/l	40.0		89.5	78-114	2.55	18	



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Golder Associates - Sunnyvale Project Manager: George Wegman Sunnyvale CA, 94085 Project: Lehigh S & G Permit

Project Number: 063-7109-914

Reported: 04/18/14 16:47

## Anions by EPA Method 300.0 - Quality Control Alpha Analytical Laboratories, Inc.

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AD41228 - General Preparation	1										
Blank (AD41228-BLK1)					Prepared &	Analyzed:	: 04/12/14				
Chloride	ND	0.030	0.50	mg/l							U
LCS (AD41228-BS1)					Prepared &	Analyzed:	04/12/14				
Chloride	9.89	0.030	0.50	mg/l	10.0		98.9	90-110			
Duplicate (AD41228-DUP1)		Source: 1	4D1054-01		Prepared: (	04/12/14 A	nalyzed: 04	1/14/14			
Chloride	59.8	0.15	2.5	mg/l		56.1			6.51	20	
Matrix Spike (AD41228-MS1)		Source: 1	4D1054-01		Prepared: (	04/12/14 A	nalyzed: 04	1/15/14			
Chloride	67.7	0.15	2.5	mg/l	11.1	56.1	104	80-120			
Matrix Spike (AD41228-MS2)		Source: 1	4D0645-02		Prepared: (	04/12/14 A	nalyzed: 04	1/13/14			
Chloride	16.2	0.030	0.50	mg/l	11.1	5.19	99.5	80-120			
Matrix Spike Dup (AD41228-MSD1)		Source: 1	4D1054-01		Prepared: (	04/12/14 A	nalyzed: 04	1/15/14			
Chloride	69.0	0.15	2.5	mg/l	11.1	56.1	117	80-120	2.03	20	



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Golder Associates - Sunnyvale Project Manager: George Wegman

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#### **Notes and Definitions**

J Detected but below the Reporting Limit; therefore, result is an estimated concentration, detected but not quantified (DNQ).

QC-MS MS/MSD not included with this batch due to insufficient sample volume.

QM-4X The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the

spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.

T-2 Sample analyzed outside of recommended holding time per client.

U Analyte included in analysis, but not detected at or above MDL.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Golder Associates

CHAIN OF CUSTODY Golder Associates

Page | of ∤

14D0259

Quotation No. Pa# 1520554289

Add TSS to Pard 2069 21:40, COC PEC. 4.2-140 4-1-140 21:45, Set met out かとか No 3 EDD required? EDF required? Attn: Greene Wegmenn, Green Knagp, Remarks Hold ok to run Chaw Fip Ar Client Ses C Yes Golder Associates Inc. Cont. SEND RESULTS TO: Q. 18 ANALYSES 1455 1/2/11/1/11/11 5 5 H550 > Type/Vol. Container Preserv. Info Filter David C. Walt Depth Lebish 546 SITE NAME: Matrix Standard Time 3-31-14 1520 3-31-14 1510 Collection Date CONTRACT LABORATORY; 063-7109-914 TURN-AROUND TIME: David Walter Pond 20 Eff 11 205 Pond 20 gw R-002E Lab I.D. PROJECT NO .: SAMPLER(S): Sample I.D.

12211

Relinquished by: (signature)

Phone (408) 220-9223 Fax (408) 220-9224 Sunnyvale, CA 94085

425 Lakeside Drive

(30)

Ward

TAKE

Collections from

### Sean Foley@Alpha Labs

From:

"Robbie Phillips" <Robbie@alpha-labs.com>

To:

"Foley Sean" <sfoley@alpha-labs.com>

Cc:

"DeVillier Kimberly" < Kimberly\_DeVillier@golder.com>

Sent:

Monday, April 07, 2014 11:18 AM

Subject: 14D0259 Golder Hello Sean,

Per our conversation, please add TSS to the Pond 20 EFF grab sample only and rush since it expires at approx 15:00 this afternoon.

Thanks again!

Robbie C. Phillips Alpha Analytical Laboratories, Inc. President P. 925-828-6226 F. 925-828-6309 M. 650-464-3237

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